

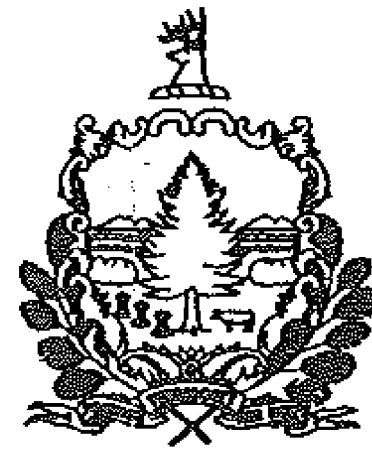
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- 5. MAINLINE PAVEMENT MARKINGS AT INTERSECTING SIDE ROAD
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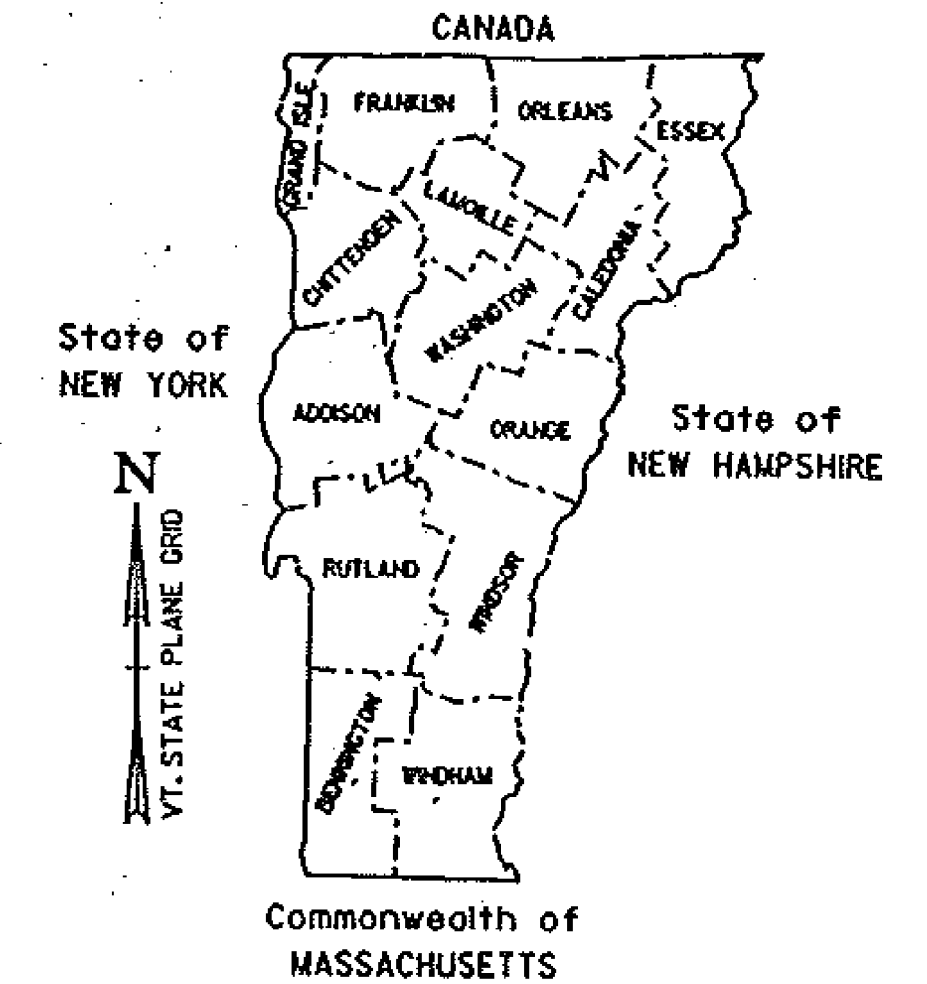
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STATE OF VERMONT AGENCY OF TRANSPORTATION



CONTRACT PLANS
THESE PLANS DO NOT REFLECT
CHANGES MADE ON THE PROJECT.

PROPOSED IMPROVEMENT TOWNS OF ADDISON, BRANDON, CORNWALL, FAIR HAVEN MENDON, MIDDLEBURY, RIPTON & RUTLAND



Date 9-2-87 SEP 10 1987

Pike Industries Inc.
Contractor

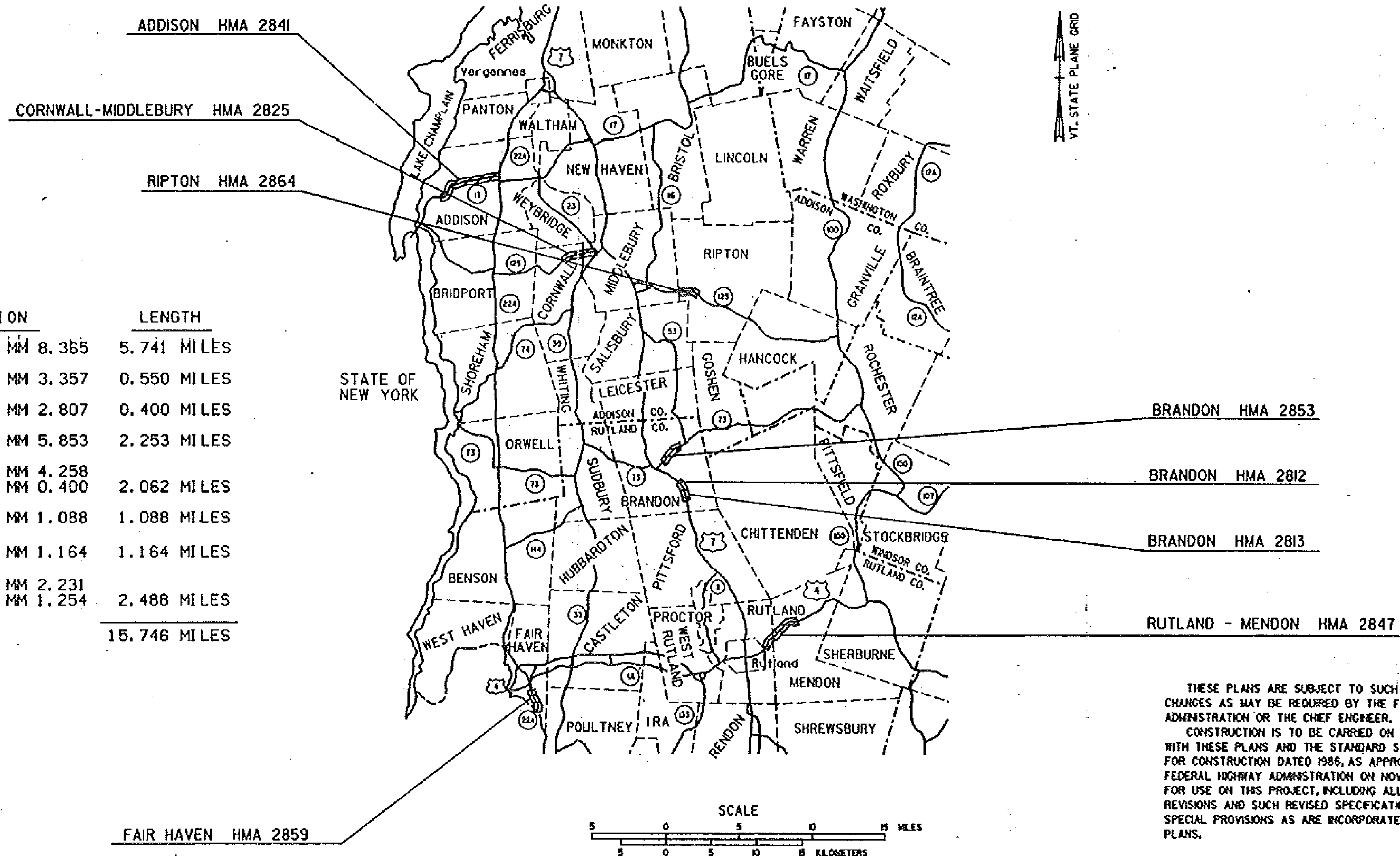
Regan D. Marts
Signature

Vice President
Title

Arthur S. Hull
Transportation Secretary's Signature

RESURFACING PROJECTS
WORK PERFORMED UNDER THIS PROJECT SHALL CONSIST OF RESURFACING
THE HIGHWAY, INCLUDING SHOULDERS AND NEW PAVEMENT MARKINGS.

PROJECT	NUMBER	ROUTE	LOCATION	LENGTH
ADDISON	HMA 2841	VT. 17	MM 2.624 TO MM 8.365	5.741 MILES
BRANDON	HMA 2812	U. S. 7	MM 2.807 TO MM 3.357	0.550 MILES
BRANDON	HMA 2813	U. S. 7	MM 2.407 TO MM 2.807	0.400 MILES
BRANDON	HMA 2853	VT. 73	MM 3.600 TO MM 5.853	2.253 MILES
CORNWALL- MIDDLEBURY	HMA 2825	VT. 125	MM 2.596 TO MM 4.258 MM 0.000 TO MM 0.400	2.062 MILES
FAIR HAVEN	HMA 2859	VT. 22-A	MM 0.000 TO MM 1.088	1.088 MILES
RIPTON	HMA 2864	VT. 125	MM 0.000 TO MM 1.164	1.164 MILES
RUTLAND- MENDON	HMA 2847	U. S. 4	MM 0.997 TO MM 2.231 MM 0.000 TO MM 1.254	2.488 MILES
TOTALS				15.746 MILES



THESE PLANS ARE SUBJECT TO SUCH ENGINEERING
CHANGES AS MAY BE REQUIRED BY THE FEDERAL HIGHWAY
ADMINISTRATION OR THE CHIEF ENGINEER.
CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE
WITH THESE PLANS AND THE STANDARD SPECIFICATIONS
FOR CONSTRUCTION DATED 1986, AS APPROVED BY THE
FEDERAL HIGHWAY ADMINISTRATION ON NOVEMBER 21, 1985
FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT
REVISIONS AND SUCH REVISED SPECIFICATIONS AND
SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE
PLANS.

SUBMITTED BY ORDER OF THE STATE TRANSPORTATION BOARD

APPROVED David D. Kelley DATE 7/29/87
CHIEF ENGINEER

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED _____ DATE _____
DIVISION ADMINISTRATOR

PROJECT RESURFACING PROJECTS

SHEET 1 OF 96 SHEETS

QUANTITY SHEET

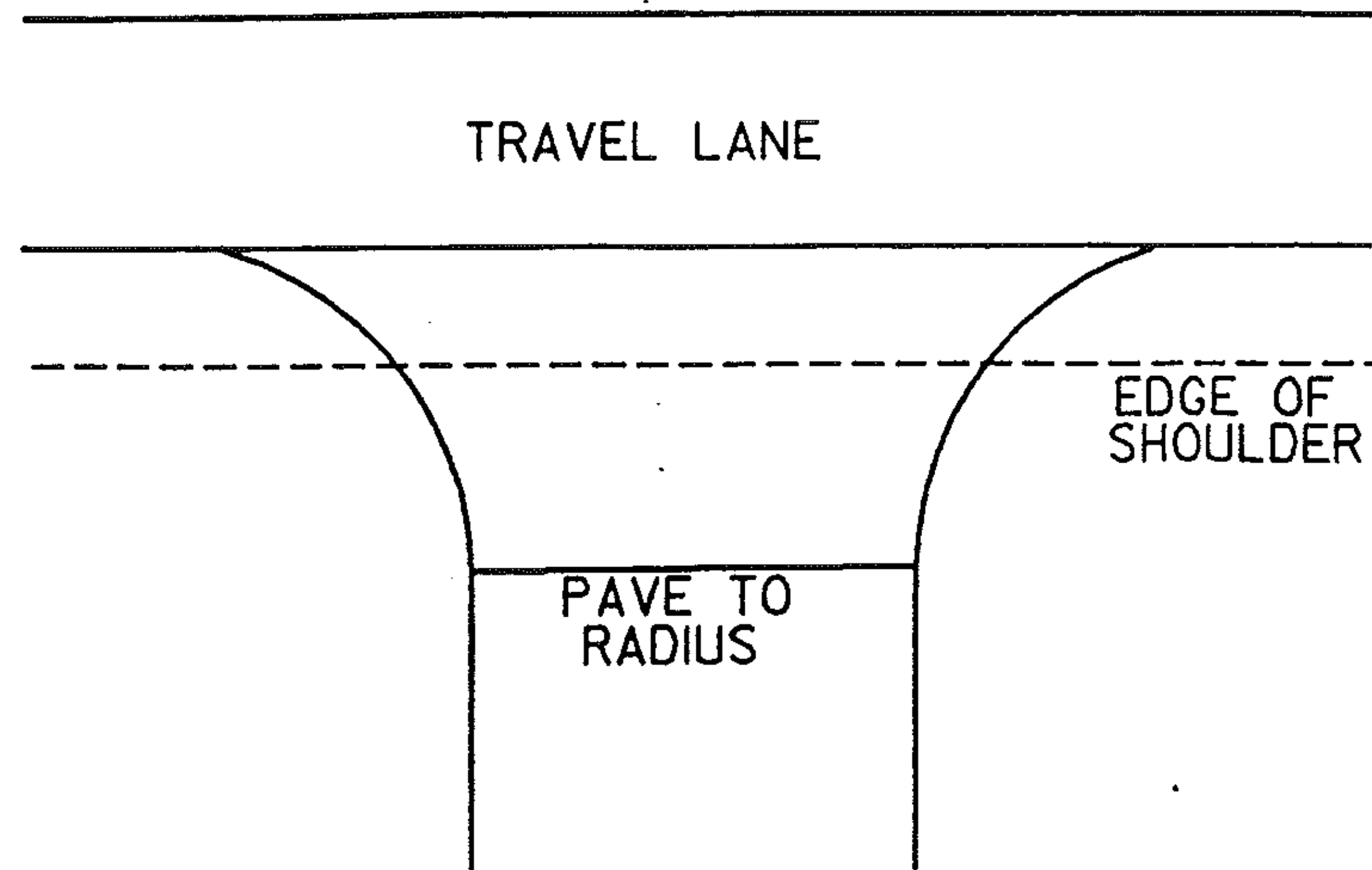
STATE OF VERMONT
AGENCY OF TRANSPORTATION

APPROXIMATE SUMMARY OF QUANTITIES

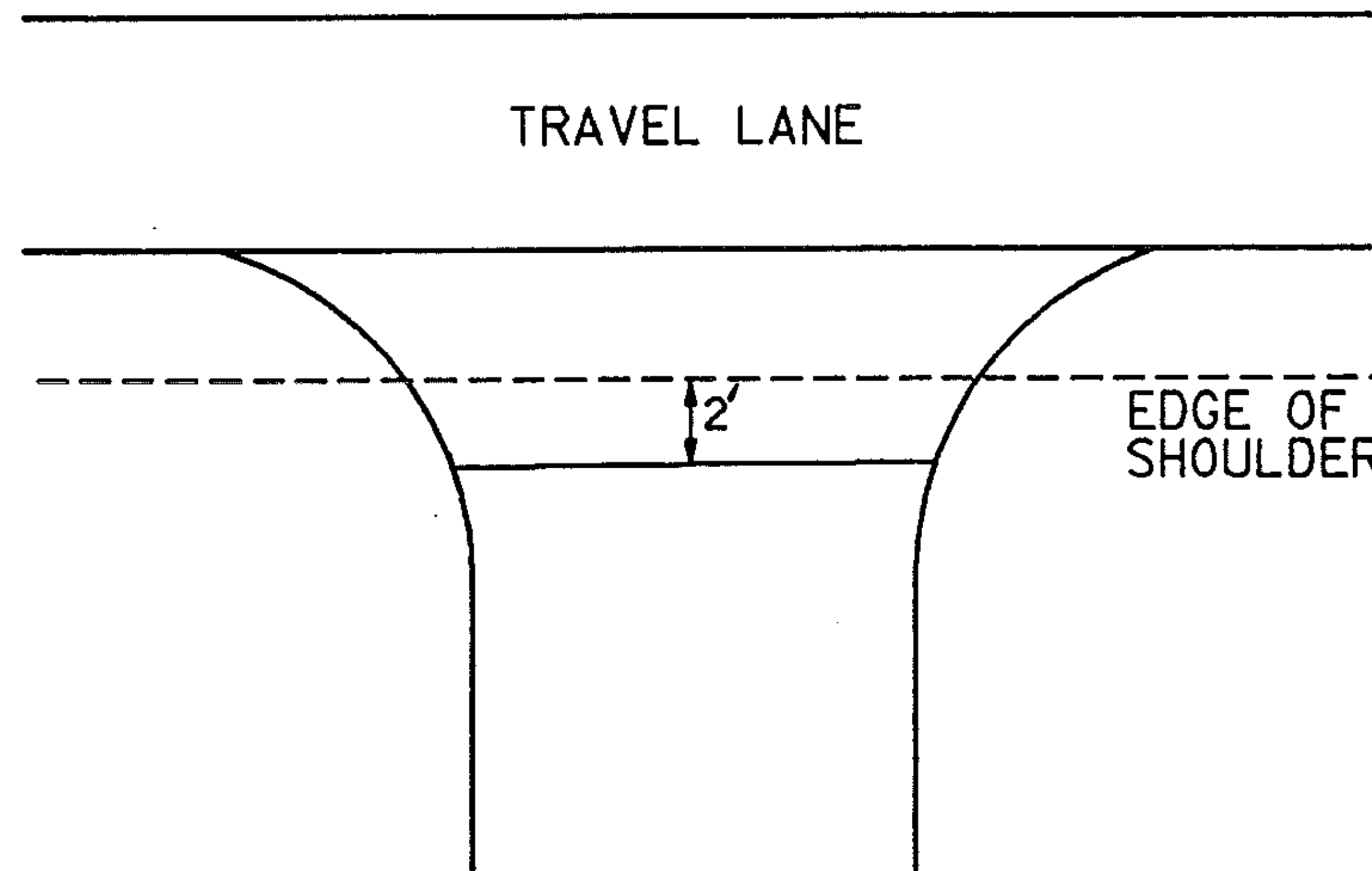
	ADDISON HMA 2841	BRANDON HMA 2842	BRANDON HMA 2843	BRANDON HMA 2853	CORNWALL- MIDDLEBURY HMA 2825	FAR HAVEN HMA 2859	RIPTON 2864	RUTLAND- MENDON HMA 2847		QUANTITIES GRAND TOTAL	UNIT	ITEMS	ITEM NO.	ROUNDING
												BEGIN OPTION ITEMS		
	1960	250	180	1100	925	415	715	460		6005	C.Y.	AGGREGATE SHOULDERS	402.10	
	3430	440	315	1925	1620	730	1255	810		10,525	TON	AGGREGATE SHOULDERS	402.12	
												END OPTION ITEMS		
	110	12	8	40	35	25	20	75		325	CWT	EMULSIFIED ASPHALT	404.65	
	8350	1020	700	3360	2960	1860	1500	6530		26,280	TON	BITUMINOUS CONCRETE PAVEMENT	406.25	
								1		1	EA.	CHANGING ELEVATIONS OF D'S, CB'S, OR MH'S	604.40	
	60	6	4	35	20	12	12	25		174	HR	POWER GRADER RENTAL	608.15	
	60	6	4	35	20	12	12	25		174	HR	ALL PURPOSE EXCAVATOR RENTAL, TYPE I	608.25	
	50	5	4	20	20	10	10	20		139	HR	POWER BROOM RENTAL	608.30	
	60	6	4	35	20	12	12	25		174	HR	TRUCK RENTAL	608.37	
	700	90	60	280	250	155	130	550		2215	HR	UNIFORMED TRAFFIC OFFICERS	630.10	
	780	100	70	325	290	200	200	575		2540	HR	FLAGGERS	630.15	
	0.36	0.03	0.03	0.14	0.13	0.07	0.07	0.17		1	L.S.	MOBILIZATION	635.10	
								885		885	L.F.	DURABLE 4" WHITE LINE	646.30	
								1570		1570	L.F.	DURABLE 4" YELLOW LINE	646.31	
								60		60	L.F.	DURABLE 24" STOP BAR	646.40	
								10		10	EA.	DURABLE ARROW MARKING	646.42	
								20		20	EA.	DURABLE LETTER IN WORD MARKING	646.44	
	60,630	5850	4250	23800	21,800	11,500	12,300	29,950		170,080	L.F.	TEMPORARY 4" WHITE LINE	646.50	
	69,800	10,800	5,500	34,700	35,700	17,700	24,600	48,450		247,250	L.F.	TEMPORARY 4" YELLOW LINE	646.51	
								60		60	L.F.	TEMPORARY 24" STOP BAR	646.60	

PAVING LIMITS FOR DRIVES & TOWN ROADS

PAVING LIMITS FOR TOWN ROADS



PAVING LIMITS FOR DRIVES



PROJECT Resurfacing Projects

NO. _____

SHEET 3 OF 75 SHEETS

GUIDELINES FOR MINIMUM INTERIM PAVEMENT MARKINGS
IN CONSTRUCTION ZONES

- A. CENTERLINE AND GORE AREA MARKINGS SHALL BE APPLIED AT THE END OF EACH WORKING DAY. THE FOLLOWING LAYOUT REQUIREMENTS SHALL BE MET:

NO PASSING BARRIER
SOLID STRIPES.

DASHED LINE
10-FOOT SOLID LINE WITH 30-FOOT GAP.

GORE AREA
(GORE AREAS TO INCLUDE 8' CHANNELIZING LINE AND DASHED LINE)
PER STANDARD SHEET E-50

- B. EDGE LINES

WHEN SPECIFIED, EDGE LINES ARE NOT REQUIRED UNTIL COMPLETION OF THE PROJECT. ON INTERSTATE PROJECTS, TEMPORARY EDGE LINES SHOULD BE APPLIED WHERE TRAFFIC VOLUMES AND SPEEDS ARE HIGH AND DELAY OF SEVERAL DAYS IS ANTICIPATED.

- C. TEMPORARY MARKINGS MAY CONSIST OF PAINT, TAPE OR RAISED PAVEMENT MARKERS (RPM'S). THE TAPE SHALL BE A RETRO-REFLECTIVE FILM ON A CONFORMABLE METALLIC BACKING THAT CAN BE PAVED OVER. TAPE MAY BE USED ON THE FINAL SURFACE COURSE IF IT WILL NOT INTERFERE WITH THE FINAL MARKING APPLICATION. TEMPORARY TAPE MARKINGS WILL BE OFFSET AND REMOVED WHEN PROJECT IS FINISHED AND FINAL CENTERLINE PAINTED. THE TAPE SHALL BE THE TYPE THAT IS REMOVABLE INTACT AND NOT SEPERATE AT ANY TIME. THE RPM'S SHALL HAVE A SELF-ADHESIVE BACKING EASILY REMOVED BEFORE PAVING AND SHALL CONFORM TO THE FOLLOWING LAYOUT PATTERN:

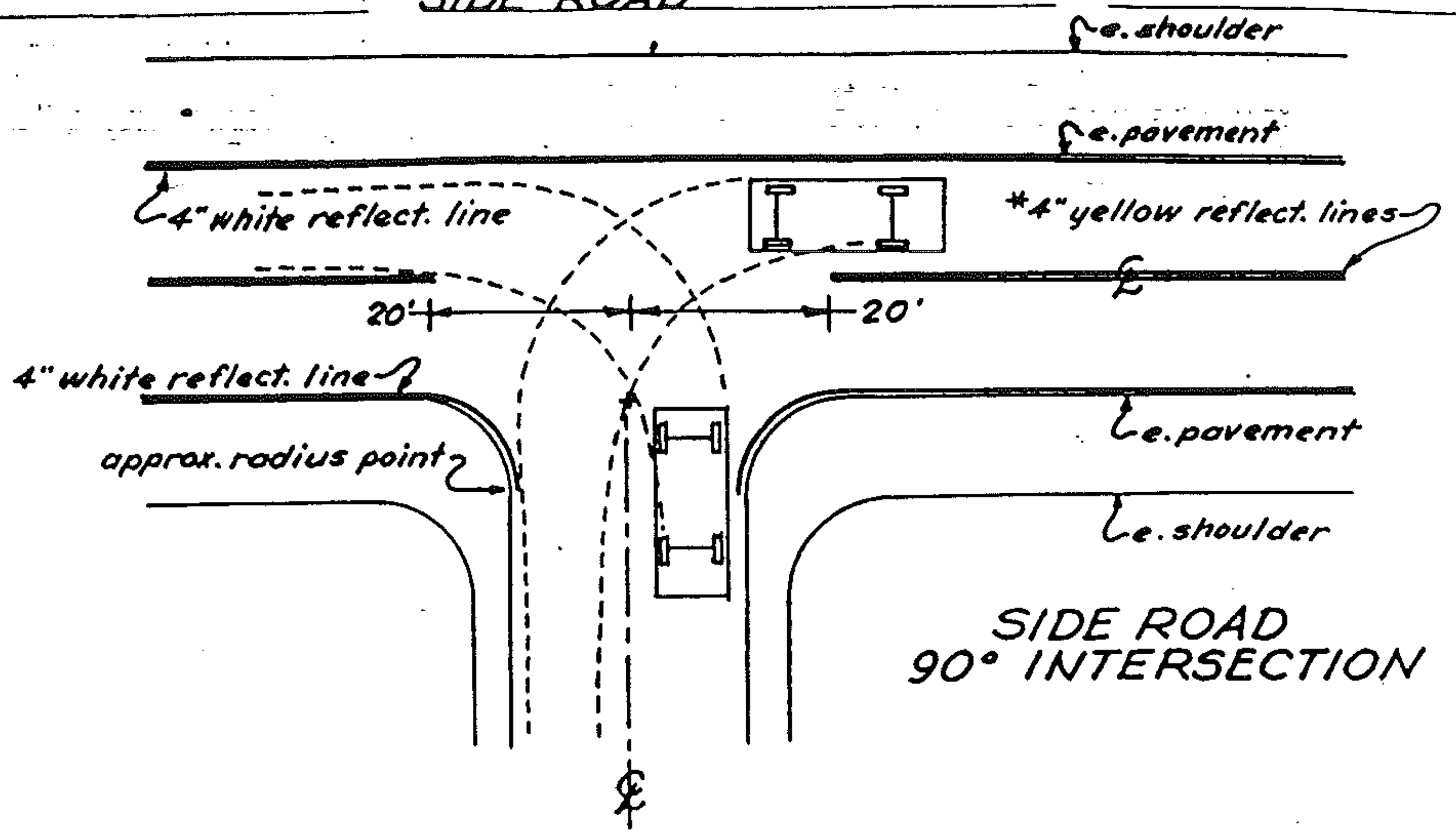
NO PASSING BARRIER
NO RPM'S ALLOWED.

DASHED LINE
FOUR RETRO-REFLECTIVE RPM'S ON 3 1/2 FOOT CENTERS WITH A 30' GAP.

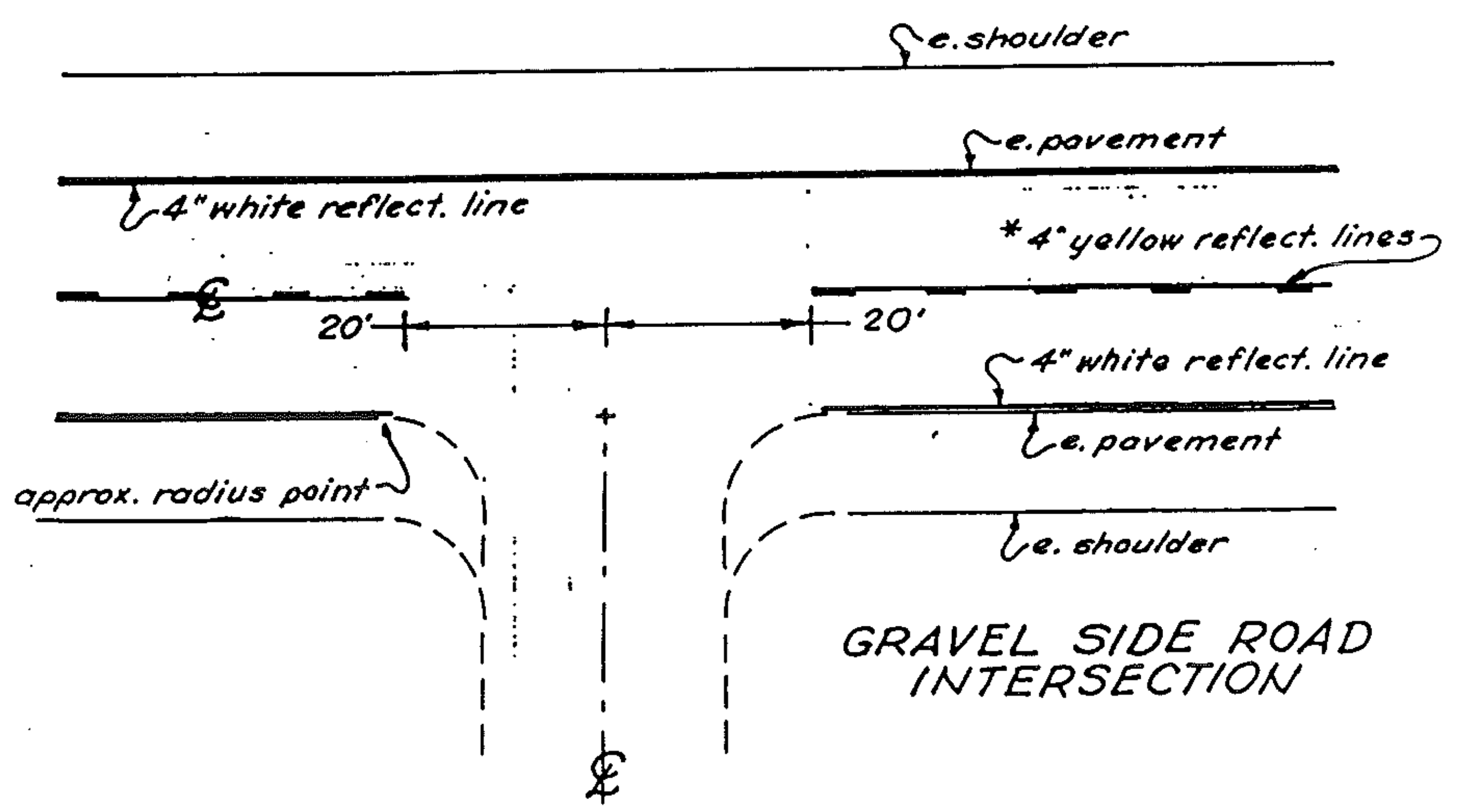
SOLID LINE - EDGE LINES
INTERSTATE MEDIAN SIDE-RETRO-REFLECTIVE RPM'S ON 4 TO 5 FOOT CENTER.
DRIVERS RIGHT SIDE-RPM'S NOT ALLOWED.

- D. WHEN PAINT IS USED FOR TEMPORARY MARKING, AN ALTERNATE MATERIAL SUCH AS TAPE OR RPM'S SHALL BE ON HAND IN THE EVENT RAIN PREVENTS THE PAINT APPLICATION FROM BEING COMPLETED. ALL PAINT SHALL BE REFLECTORIZED.
- E. PAYMENT FOR PAINT AND TAPE SHALL BE COMPUTED ON A LINEAR FOOT BASIS AS IF PAINT WAS USED. PAYMENT FOR THE RPM'S SHALL BE COMPUTED AS IF AN EQUIVALENT PAINT LINE WAS USED. (FOR EXAMPLE, DASHED LINE PAID AS 10 FEET OF PAINT, SOLID LINE PAID AS THE TOTAL DISTANCE COVERED WITH THE MARKERS).
- F. PRIOR TO ACCEPTANCE, THE PAVEMENT MARKINGS SHALL BE COMPLETED FOR THE ENTIRE PROJECT BY THE CONTRACTOR AS DETAILED ON THE PLANS OR DIRECTED BY THE RESIDENT ENGINEER.

REVISED
02/11/85



* Centerline treatment shall consist of a minimum of 400 feet of solid line in advance of the intersection and shall be paired with either a solid or dashed line depending on sight distance availability in the opposing lane.



STATE OF VERMONT
 AGENCY OF TRANSPORTATION



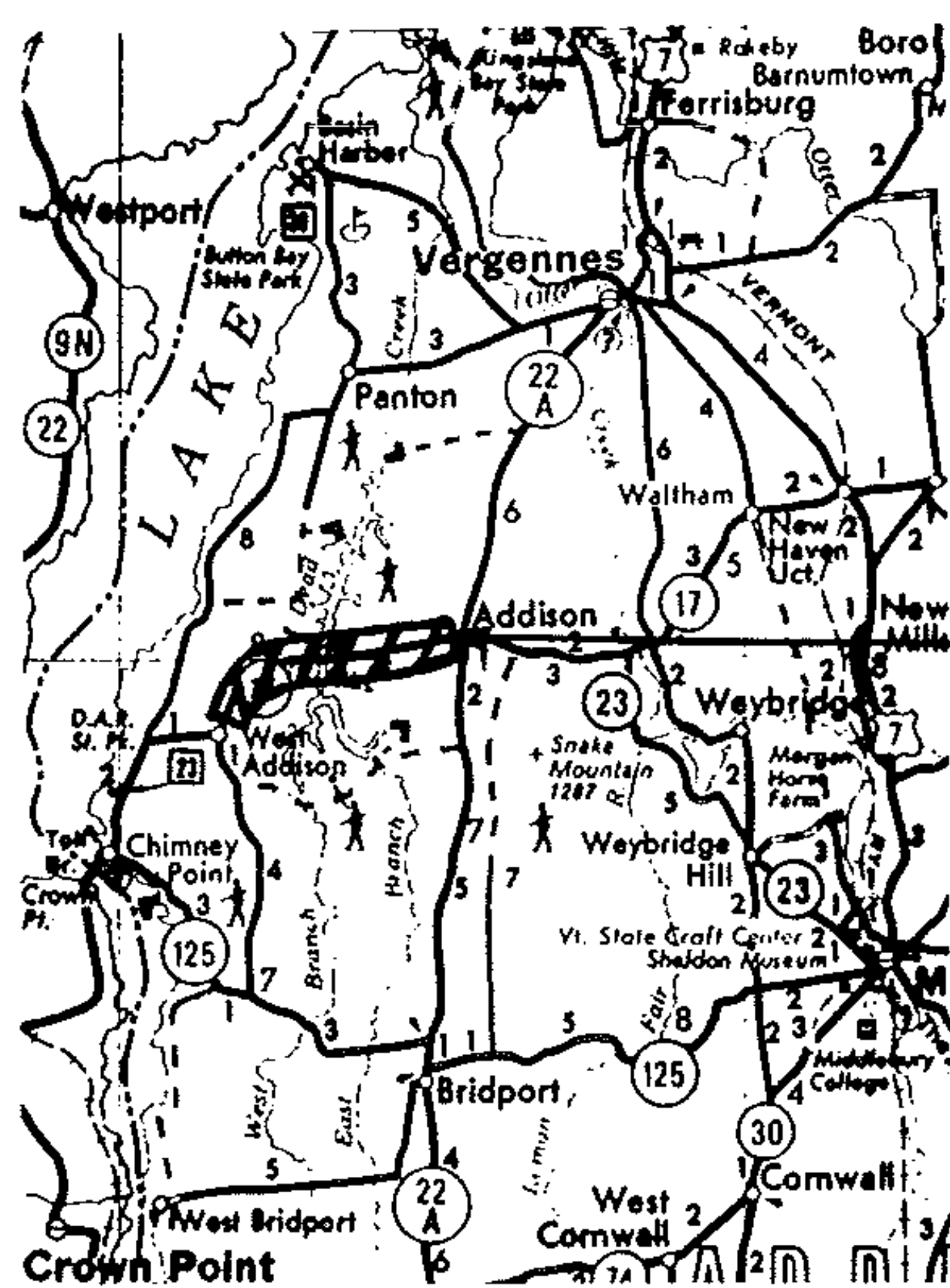
PROPOSED IMPROVEMENT

TOWN OF Addison

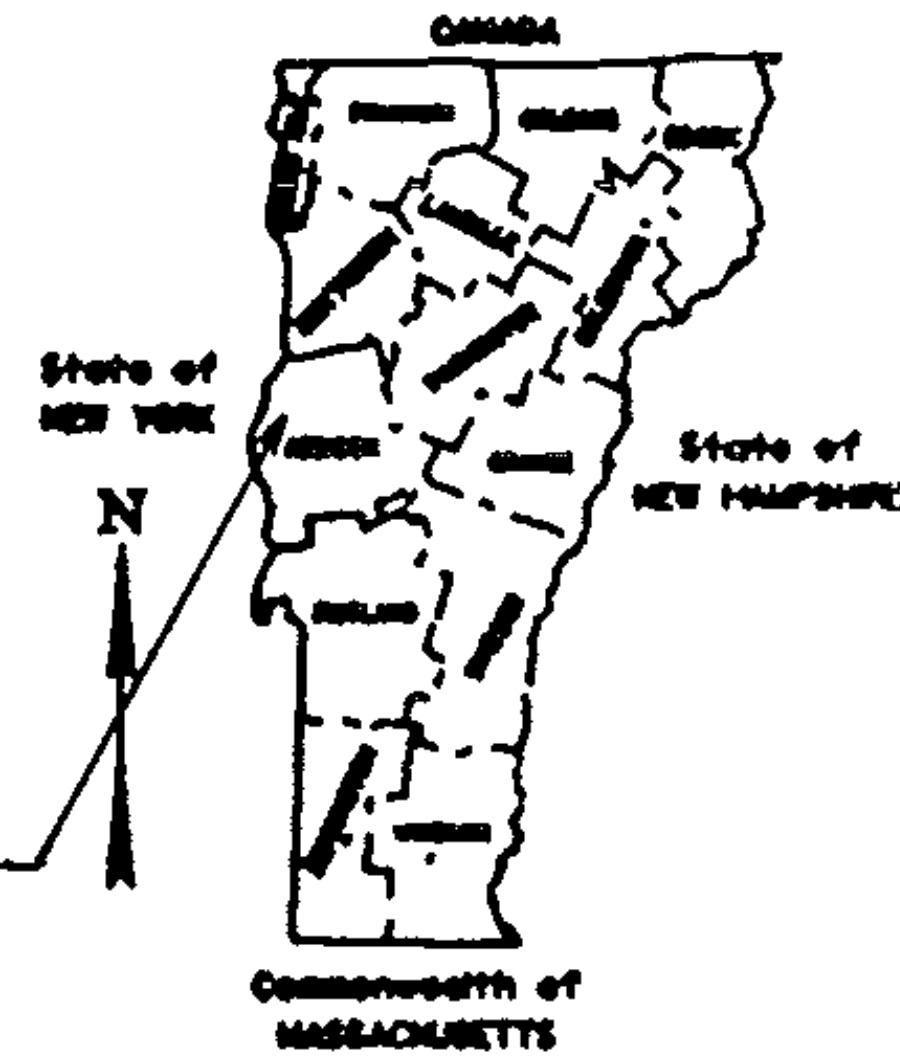
COUNTY OF Addison

ROUTE NO. VT 17

ROUTE CLASS FAP



PROJECT
 HMA 2841



THESE PLANS ARE SUBJECT TO SUCH ENGINEERING CHANGES AS MAY BE REQUIRED BY THE FEDERAL HIGHWAY ADMINISTRATION OR THE CHIEF ENGINEER. CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 1966, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON NOVEMBER 8, 1966 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

SUBMITTED BY ORDER OF THE STATE TRANSPORTATION BOARD

APPROVED _____ DATE _____
 CHIEF ENGINEER

DEPARTMENT OF TRANSPORTATION
 FEDERAL HIGHWAY ADMINISTRATION

APPROVED _____ DATE _____
 DIVISION ADMINISTRATOR

Addison
 PROJECT HMA # 2841

SHEET 1 OF 8 SHEETS

See Sheet 1 For Index

Sheet 6 of 75 Sheets

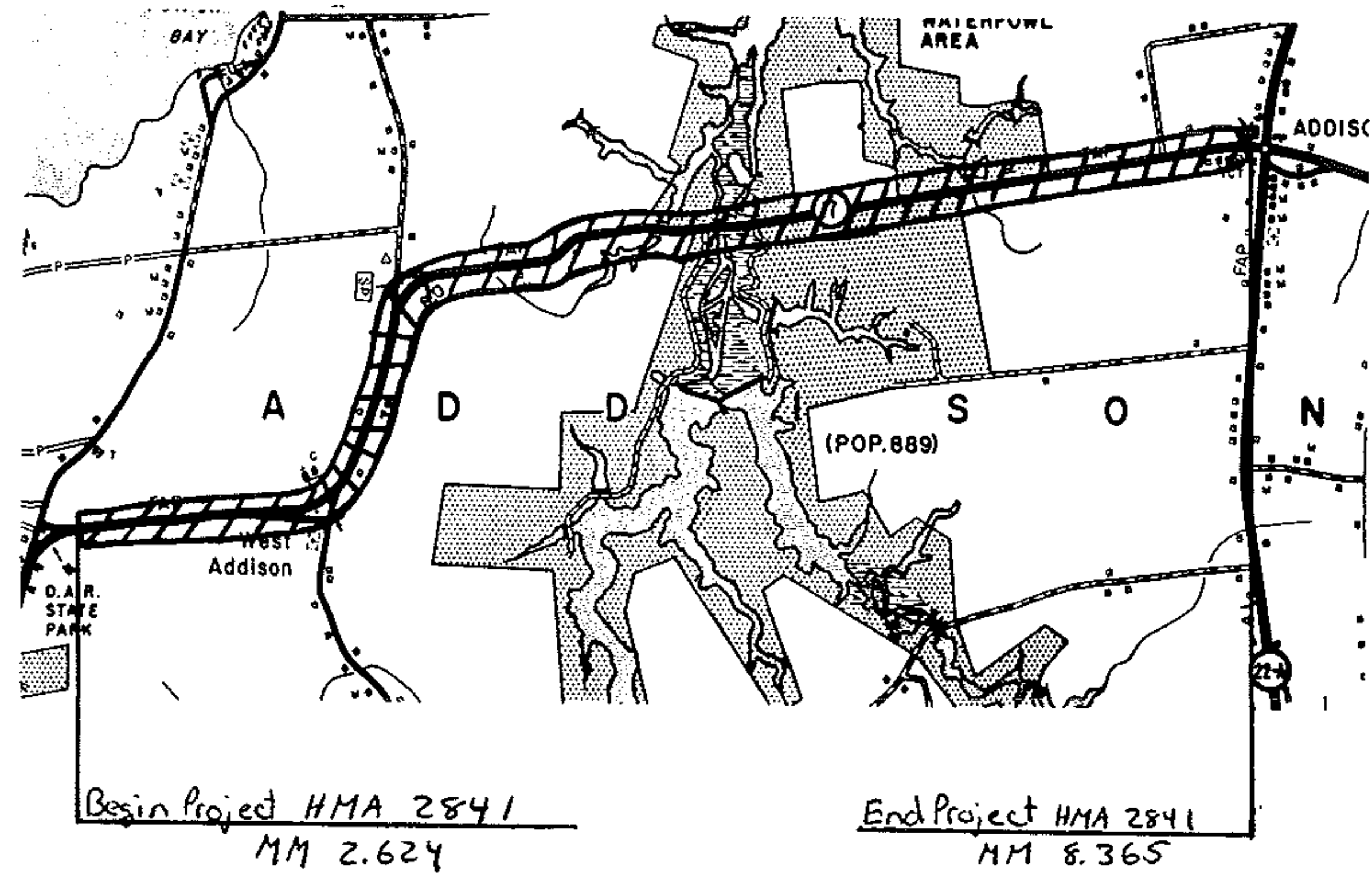
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2. INDEX OF SHEETS
3. DESCRIPTION AND LOCATION
4. TYPICAL SECTIONS AND DESIGN DATA
- 5-6. PAVEMENT MARKING LOCATIONS
- 7-8. PROJECT LENGTHS AND ITEM QUANTITIES

PROJECT ADDISON

NO. HMA 2841
SHEET 2 OF 8 SHEETS
SHEET 7 OF 75 SHEETS

DESCRIPTION AND LOCATION



Scale: 1" = 1 mile

Beginning at a point on VT 17, 2.624 miles easterly of the New York - Vermont state line and extending easterly 5.741 miles to MM 8.365

Work consists of resurfacing of the highway, including shoulders and new pavement markings

1986 ADT 1360

Length of Project 5.741 miles
30 312 feet

PROJECT Addison

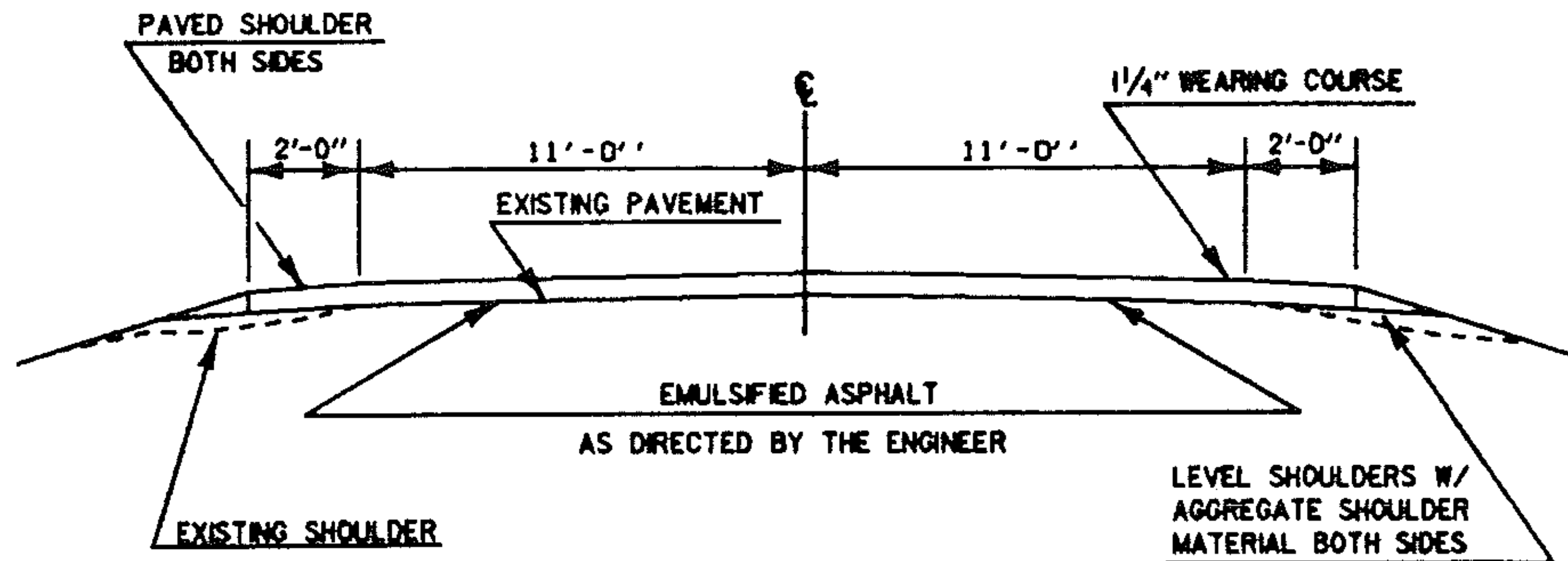
NO. HMA 2841

SHEET 3 OF 8 SHEETS

Sheet 8 of 75 Sheets

TYPICAL SECTIONS & DESIGN DATA

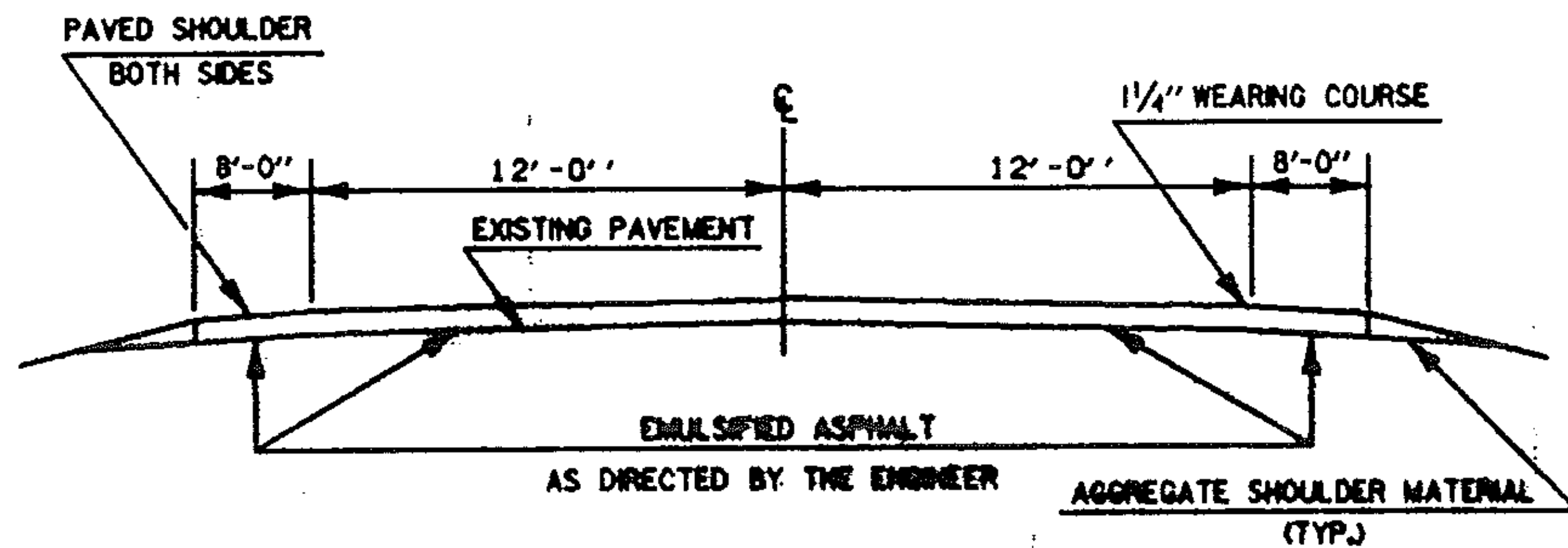
BITUMINOUS CONCRETE PAVEMENT
 LEVELING COURSE TYPE IV (295* & 455** TONS/MILE)
 AS DIRECTED BY THE ENGINEER.
 1 1/4" WEARING COURSE TYPE III (±1/4" THICKNESS TOLERANCE)



NOTE : WHEN ENCOUNTERING VEGETATION OR POOR MATERIAL IN THE SHOULDER AREA, REMOVE 2" BELOW EXISTING PAVEMENT LEVEL AND REPLACE WITH AGGREGATE SHOULDER MATERIAL. REMOVAL OF THIS MATERIAL WILL BE PAID FOR UNDER THE ITEM 'ALL PURPOSE EXCAVATOR RENTAL' OR 'GRADER RENTAL'.

NOTE : BRIDGE AT MM 6.109 IS NOT TO BE PAVED.

VT.17 MM 2.624 ~ MM 3.220*
 VT.17 MM 3.883 ~ MM 8.365*



VT.17 MM 3.220 ~ MM 3.883**

PROJECT ADDISON

NO. HMA 284I
 SHEET 4 OF 8 SHEETS
 SHEET 9 OF 75 SHEETS

TEMPORARY 4" YELLOW LINE

	MILE	MILE	LT	RT		QUANTITY LT	QUANTITY E	QUANTITY RT		TOTAL
	2.624	3.23	Dash	Dash			800			800
	3.23	3.39	Dash	Solid		211		845		1056
	3.39	3.46	Solid	Solid		370		370		740
	3.46	3.61	Dash	Solid		198		792		990
	3.61	3.85	Solid	Solid		1267		1267		2534
	3.85	4.02	Solid	Dash		898		224		1122
	4.02	4.15	Dash	Solid		172		686		858
	4.15	4.29	Solid	Dash		739		185		924
	4.29	4.42	Dash	Dash			172			172
	4.42	4.55	Dash	Solid		172		686		858
	4.55	4.74	Solid	Solid		1003		1003		2006
	4.74	4.85	Solid	Dash		581		145		726
	4.85	5.19	Dash	Dash			449			449
	5.19	5.33	Dash	Solid		185		739		924
	5.33	5.48	Solid	Solid		792		792		1584
	5.48	5.59	Solid	Dash		581		145		726
	5.59	5.75	Dash	Solid		211		845		1056
	5.75	6.04	Solid	Solid		1531		1531		3062
	6.04	6.19	Solid	Dash		792		198		990
	6.19	6.34	Solid	Solid		792		792		1584
	6.34	6.45	Solid	Dash		581		145		726
	6.45	7.00	Dash	Dash			726			726
	7.00	7.04	Dash	Solid		53		211		264
	7.04	7.46	Solid	Solid		2218		2218		4436
	7.46	7.57	Solid	Dash		581		145		726
	7.57	7.86	Dash	Dash			383			

TEMPORARY 4" WHITE LINE

	2.624	8.365				30312		30312		60624

PROJECT Addison

NO. HMA 2841
 SHEET 5 OF 8 SHEETS
 SHEET 10 OF 75 SHEETS

PROJECT LENGTHS AND ITEM QUANTITIES

ITEM DESCRIPTION

Length
 Width
 Overlay Depth
 Aggregate Shoulders
 Aggregate Shoulders
 Emulsified Asphalt
 Bituminous Asphalt
 Power Grader Rental
 All Purpose Concrete Pavement
 Power Excavator Rental
 Truck Broom Rental
 Uniformed Traffic Officers
 Mobilization

ITEM NO.	Length	Width	Overlay Depth	402.10	402.12	404.65	406.25	608.15	608.25	608.30	608.37	630.10	630.15	635.10	Option
UNIT	FT	FT	IN	CY	TON	CWT	TON	HR	HR	HR	HR	HR	HR	LS	
MM 2.624 3.220	3147	26	1 1/4	211	369	10	631								Includes Shoulders Level Course
MM 3.220 3.883	3500	40	1 1/4	246	431	20	1080								Includes Shoulders Level Course
MM 3.883 8.365	23665	26	1 1/4	1499	2623	74	4748								Includes Shoulders Level Course
Drives + Approaches							67								
MM 2.624 8.365								60	60	50	60	700	780	0.36	
Rounding				4	7	6	24	-	-	-	-	-	-	-	
TOTALS	30312			1960	3430	110	8350	60	60	50	60	700	780	.36	

PROJECT Addison

NO. HMA 2841

SHEET 7 OF 8 SHEETS
SHEET 12 OF 75 SHEETS

STATE OF VERMONT
 AGENCY OF TRANSPORTATION



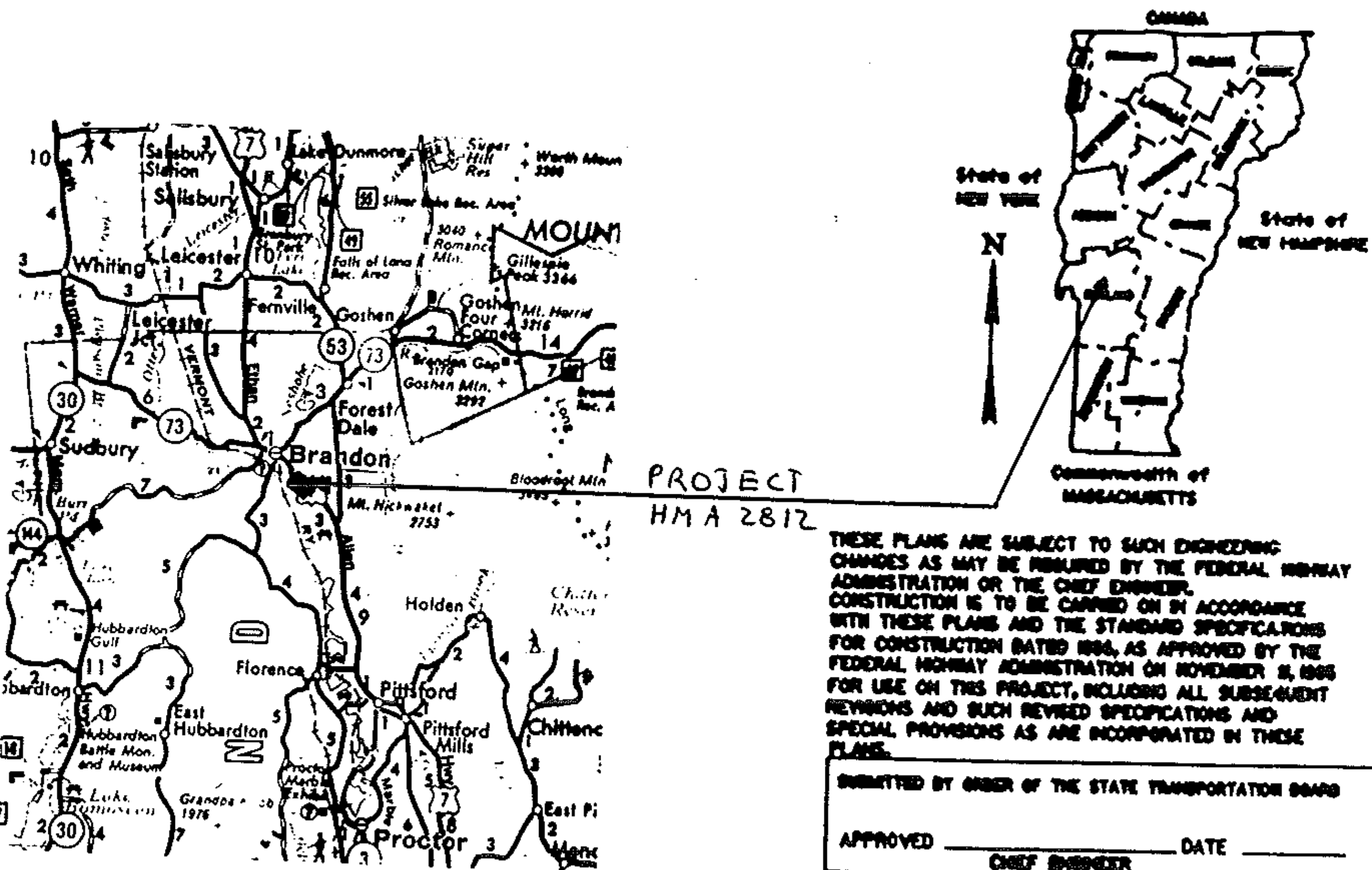
PROPOSED IMPROVEMENT

TOWN OF Brandon

COUNTY OF Rutland

ROUTE NO. US 7

ROUTE CLASS FAP



PROJECT
 HMA 2812

THESE PLANS ARE SUBJECT TO SUCH ENGINEERING CHANGES AS MAY BE REQUIRED BY THE FEDERAL HIGHWAY ADMINISTRATION OR THE CHIEF ENGINEER. CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 1966, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON NOVEMBER 2, 1966 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

SUBMITTED BY ORDER OF THE STATE TRANSPORTATION BOARD	
APPROVED _____	DATE _____
CHIEF ENGINEER	
DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION	
APPROVED _____	DATE _____
DIVISION ADMINISTRATOR	
Brandon PROJECT HMA NO. 2812	
SHEET 1 OF 7 SHEETS	

See Sheet 1 For Index

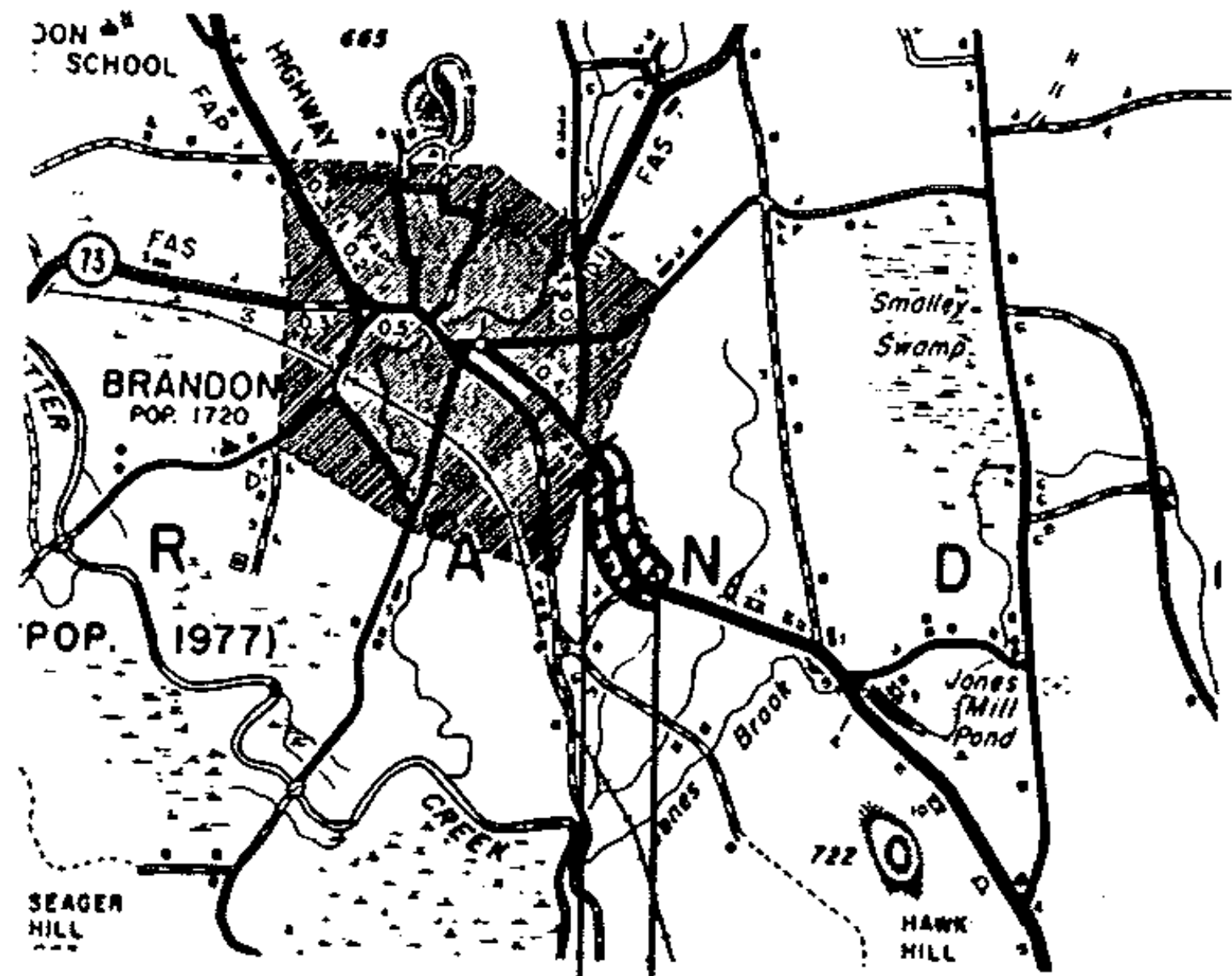
INDEX OF SHEETS

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3. DESCRIPTION AND LOCATION
4. TYPICAL SECTIONS AND DESIGN DATA
5. PAVEMENT MARKING LOCATIONS
- 6-7. PROJECT LENGTHS AND ITEM QUANTITIES

PROJECT BRANDON

NO. HMA 2812
SHEET 2 OF 7 SHEETS
SHEET 15 OF 75 SHEETS

DESCRIPTION AND LOCATION



Scale: 1" = 1 mile

Begin Project HMA 2812
MM 2.807

End Project HMA 2812
MM 3.357

Beginning at a point on US 7, 2.807 miles northerly of the Pittsford - Brandon town line and extending 0.550 miles northerly to MM 3.357

Work consists of resurfacing of the highway, including shoulders and new pavement markings.

1986 ADT 6000

Length of Project 2904 feet
0.550 miles

PROJECT Brandon

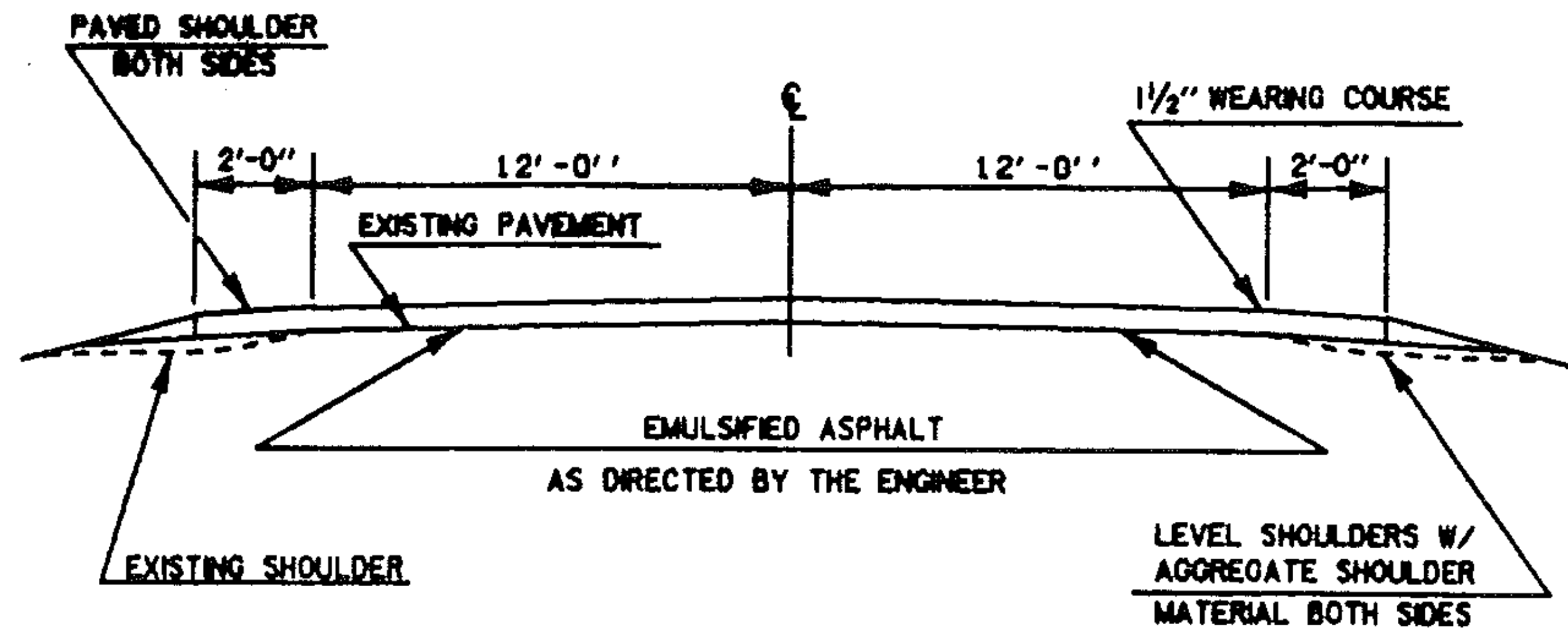
NO. HMA 2812

SHEET 3 OF 7 SHEETS

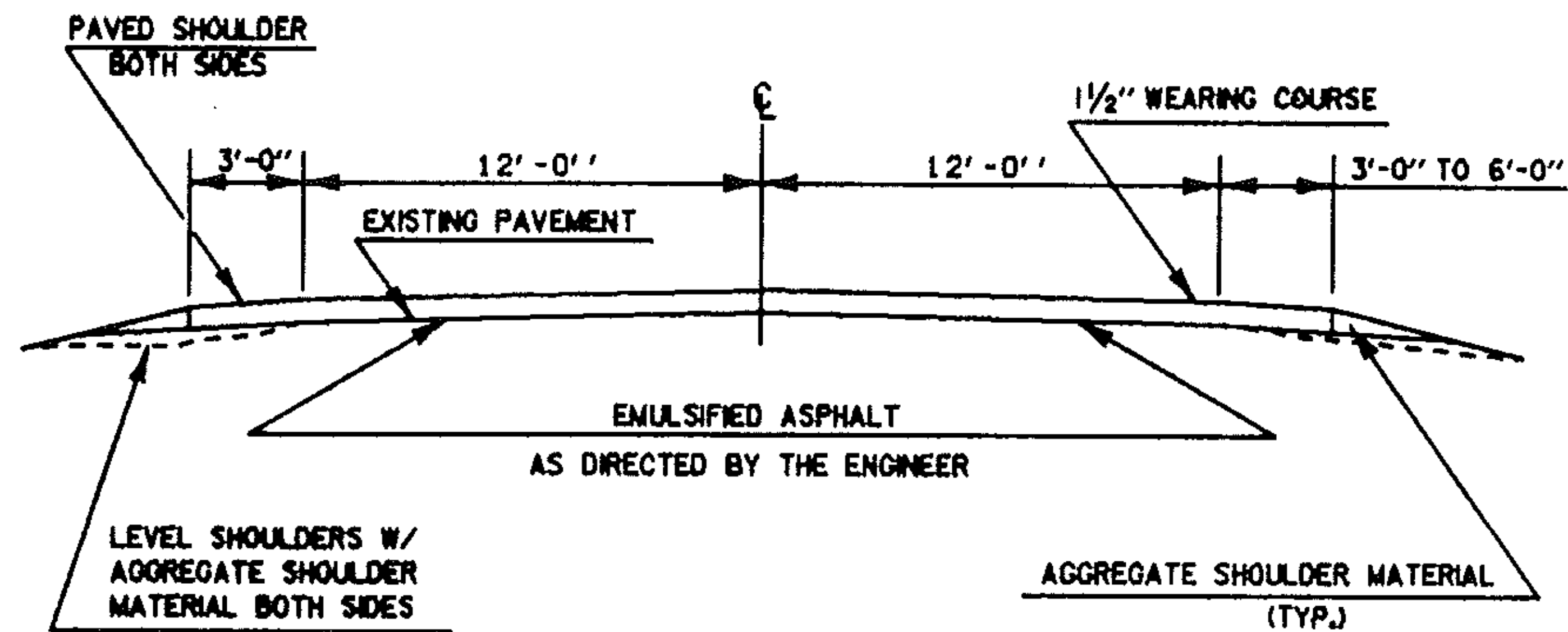
SHEET 16 OF 75 SHEETS

TYPICAL SECTIONS & DESIGN DATA

BITUMINOUS CONCRETE PAVEMENT
 LEVELING COURSE TYPE IV (273* & 358** TONS/MILE)
 AS DIRECTED BY THE ENGINEER.
 1 1/2" WEARING COURSE TYPE III (± 1/4" THICKNESS TOLERANCE)



U.S. 7 MM 2.807 ~ MM 2.873*



U.S. 7 MM 2.873 ~ MM 3.357**

NOTE : WHEN ENCOUNTERING VEGETATION OR POOR MATERIAL IN THE SHOULDER AREA, REMOVE 2" BELOW EXISTING PAVEMENT LEVEL AND REPLACE WITH AGGREGATE SHOULDER MATERIAL. REMOVAL OF THIS MATERIAL WILL BE PAID FOR UNDER THE ITEM 'ALL PURPOSE EXCAVATOR RENTAL' OR 'GRADER RENTAL'.

PROJECT BRANDON

NO. HMA 2812
 SHEET 4 OF 7 SHEETS
 SHEET 17 OF 75 SHEETS

TEMPORARY 4" YELLOW LINE

MILE	MILE	LT	RT	QUANTITY LT	QUANTITY E	QUANTITY RT	TOTALS
2.807	2.89	Dash	Solid	110		439	548
2.89	3.357	Solid	Solid	2466		2466	4932
						Subtotal	5480
				Assume 100% Loss Due To Leveling			5480
				Minus 1 Rollup Opening @ 80'			-160
				x2 courses of pavement			
						TOTAL	10800

TEMPORARY 4" WHITE LINE

2.807	3.357	Solid	Solid	2904		2904	5808

PROJECT Brandon

NO. HMA 2812
 SHEET 5 OF 7 SHEETS
 SHEET 18 OF 75 SHEETS

PROJECT LENGTHS AND ITEM QUANTITIES

ITEM DESCRIPTION	Length	Width	Overlay Depth		Option											
ITEM NO.																
UNIT	FT	FT	IN		402.10	402.12	404.65	406.25	608.15	608.25	608.30	608.37	630.10	630.15	635.10	
					CY	TON	CWT	TON	HR	HR	HR	HR	HR	HR	LS	
MM 2.807 3.357									6	6	5	6	90	100	0.03	
MM 2.807 2.873	350	28	1/2		26	46	2	91								Includes Shoulders Level Course
MM 2.873 3.357	2554	30	1/2		187	327	9	706								Includes Shoulders Level Course
Drives + Approaches					19	33		30								
Rounding					18	34	1	2	-	-	-	-	-	-	-	
TOTAL					250	440	12	1020	6	6	5	6	90	100	0.03	

PROJECT Brandon

NO. HMA 2812

SHEET 6 OF 7 SHEETS
SHEET 19 OF 75 SHEETS

STATE OF VERMONT
AGENCY OF TRANSPORTATION



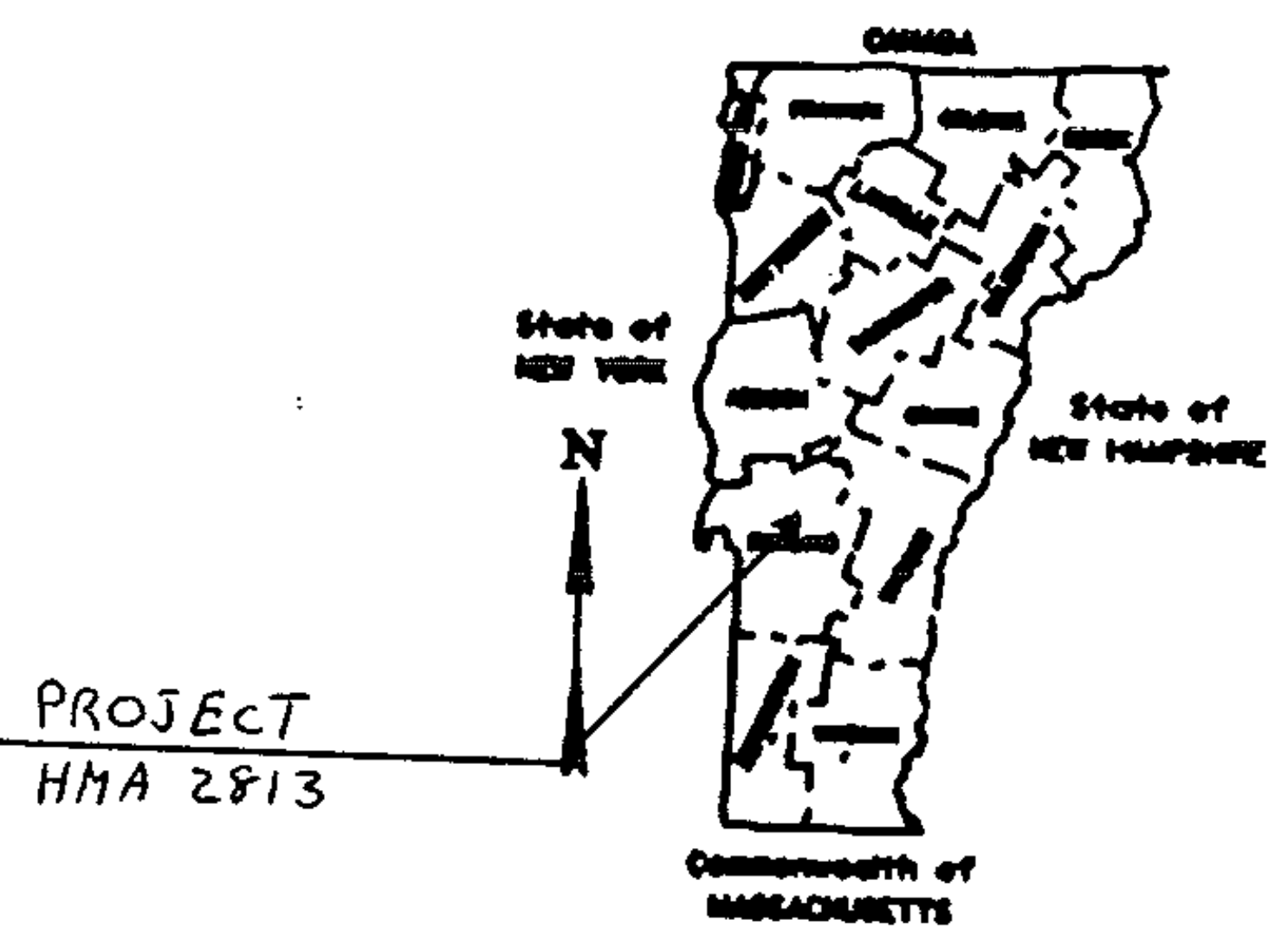
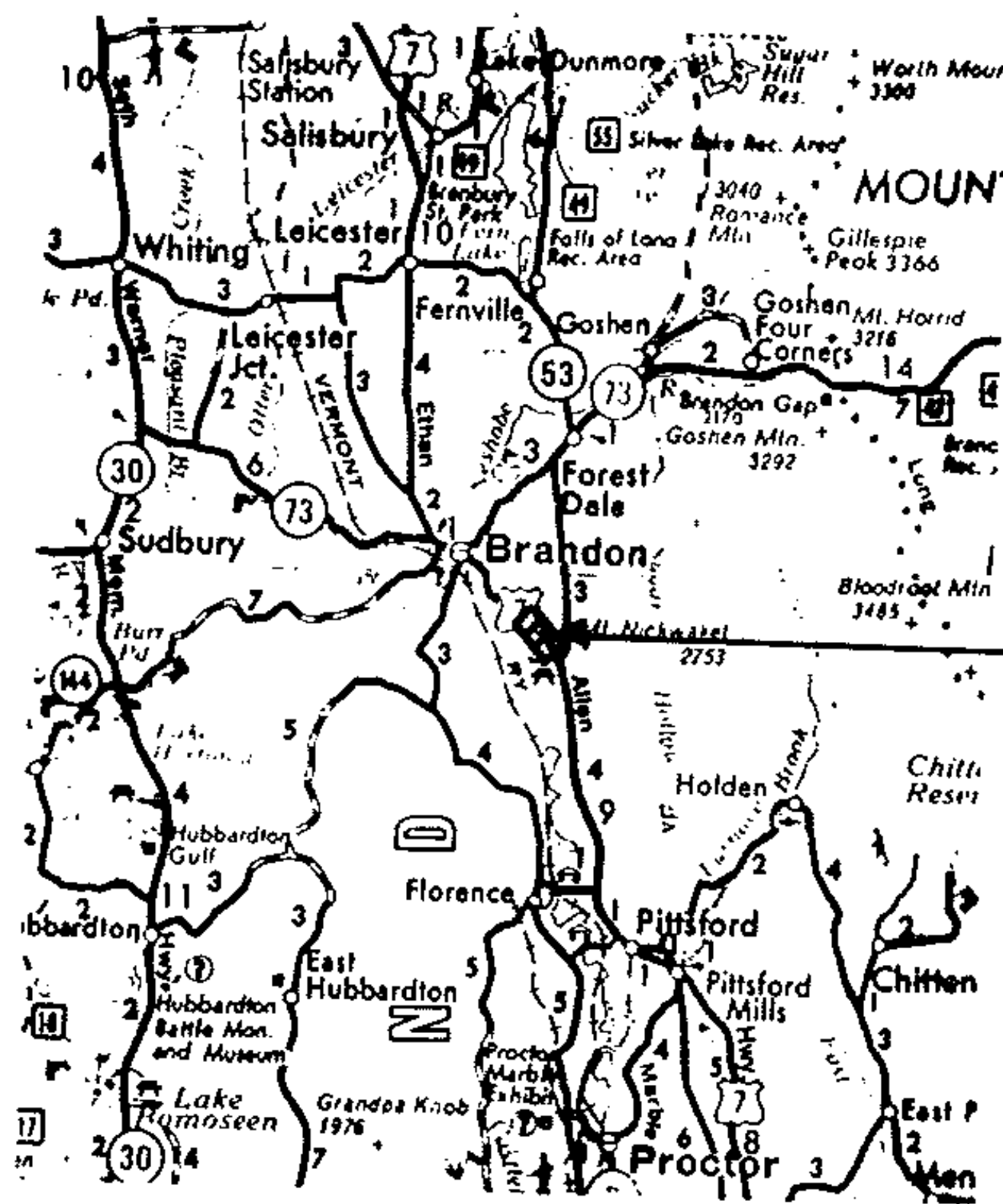
PROPOSED IMPROVEMENT

TOWN OF Brandon

COUNTY OF Rutland

ROUTE NO. US 7

ROUTE CLASS FAP



THESE PLANS ARE SUBJECT TO SUCH ENGINEERING CHANGES AS MAY BE REQUIRED BY THE FEDERAL HIGHWAY ADMINISTRATION OR THE CHIEF ENGINEER. CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 1984, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON NOVEMBER 8, 1986 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

SUBMITTED BY ORDER OF THE STATE TRANSPORTATION BOARD

APPROVED _____ DATE _____
CHIEF ENGINEER

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED _____ DATE _____
DIVISION ADMINISTRATOR

Brandon
PROJECT HMA # 2813

SHEET 1 OF 7 SHEETS

See Sheet 1 for Index

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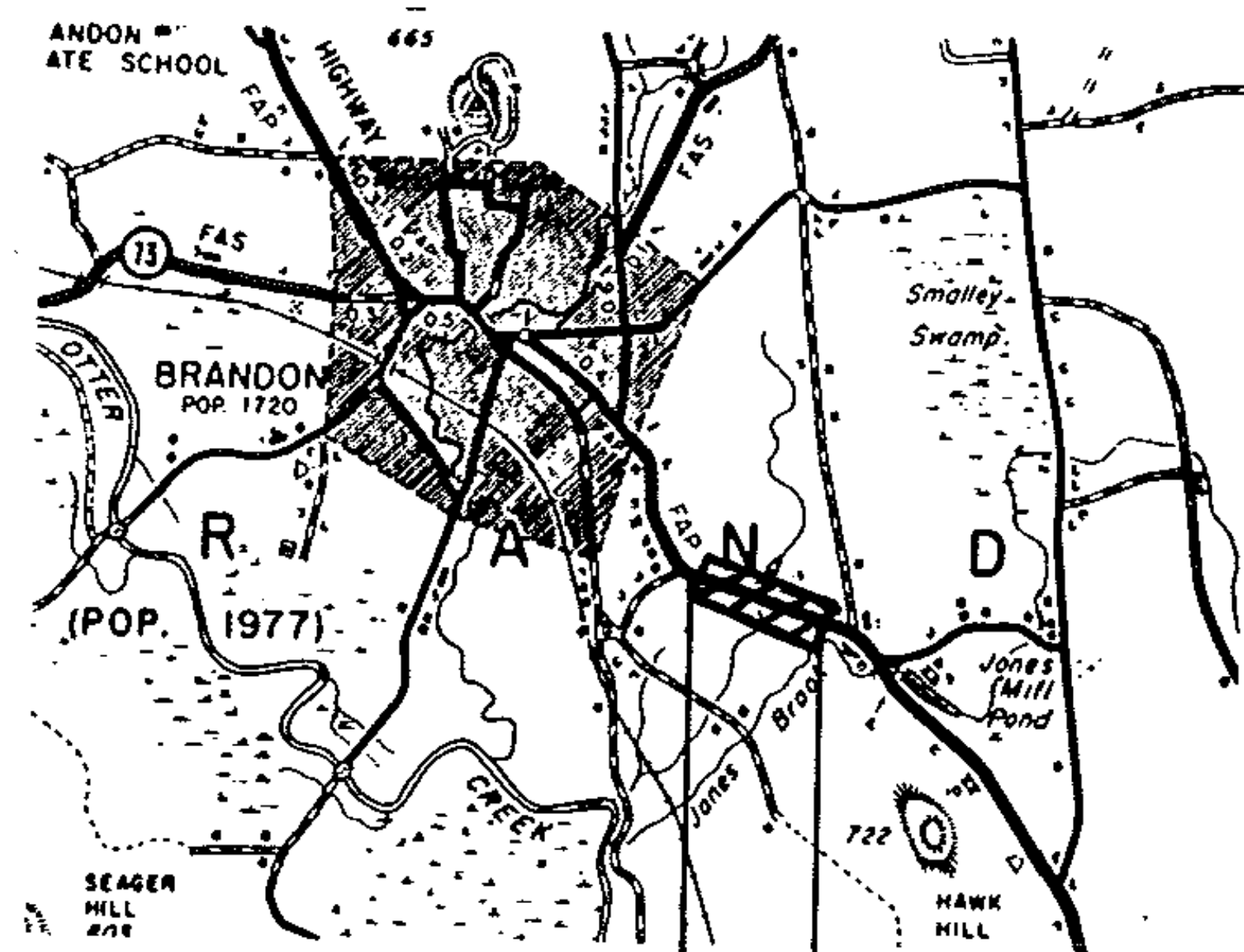
1. TITLE PAGE
2. INDEX OF SHEETS
3. DESCRIPTION AND LOCATION
4. TYPICAL SECTIONS AND DESIGN DATA
5. PAVEMENT MARKING LOCATIONS
- 6-7. PROJECT LENGTHS AND ITEM QUANTITIES

PROJECT BRANDON

NO. HMA 2813

SHEET 2 OF 7 SHEETS
SHEET 22 OF 75 SHEETS

DESCRIPTION AND LOCATION



Scale: 1" = 1 mile

End Project HMA 2813
MM 2.807

Begin Project HMA 2813
MM 2.407

Beginning at a point on US 7, 2.407 miles northerly of the Pittsford - Brandon town line and extending 0.400 miles northerly to MM 2.807.

Work consists of resurfacing of the highway, including shoulders and new pavement markings

1986 ADT 6000

Length of Project 2112 feet
0.400 miles

PROJECT Brandon

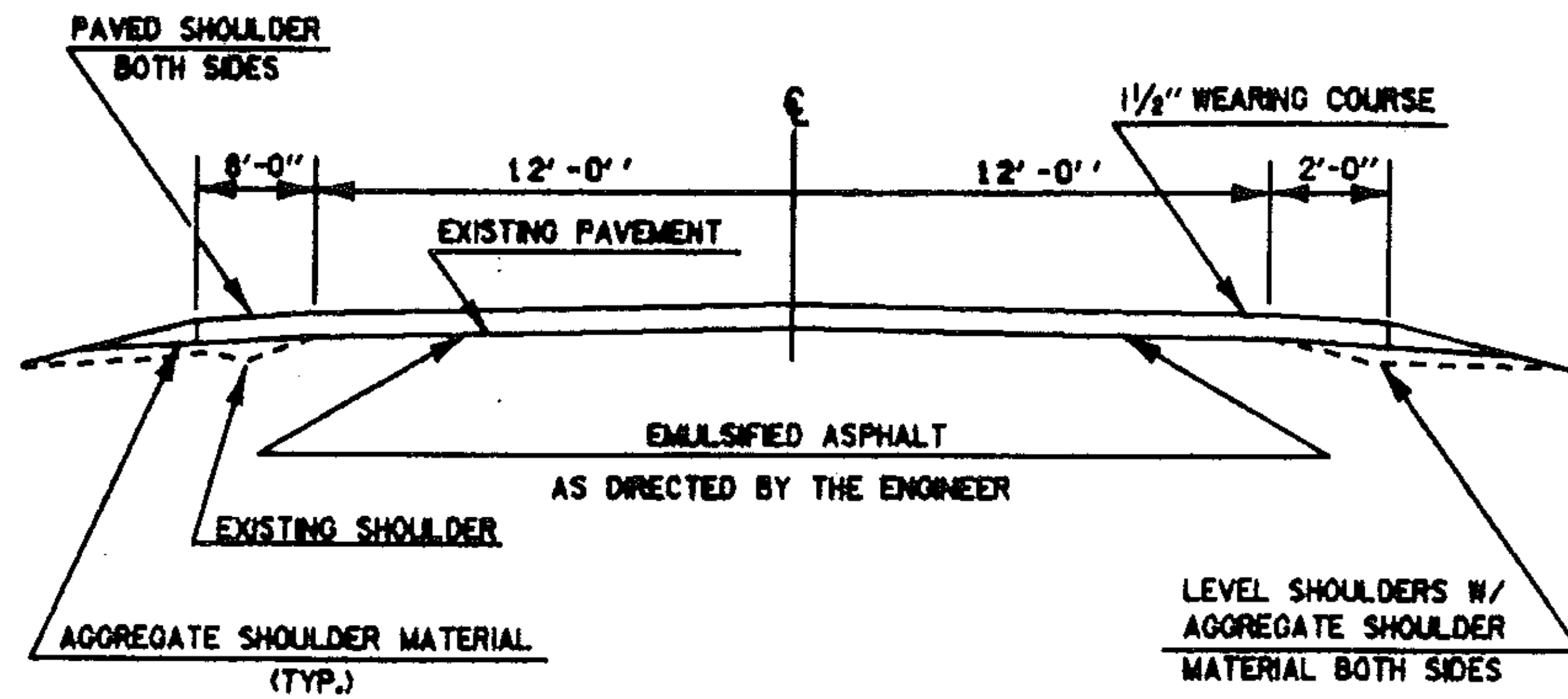
NO. HMA 2813

SHEET 3 OF 7 SHEETS

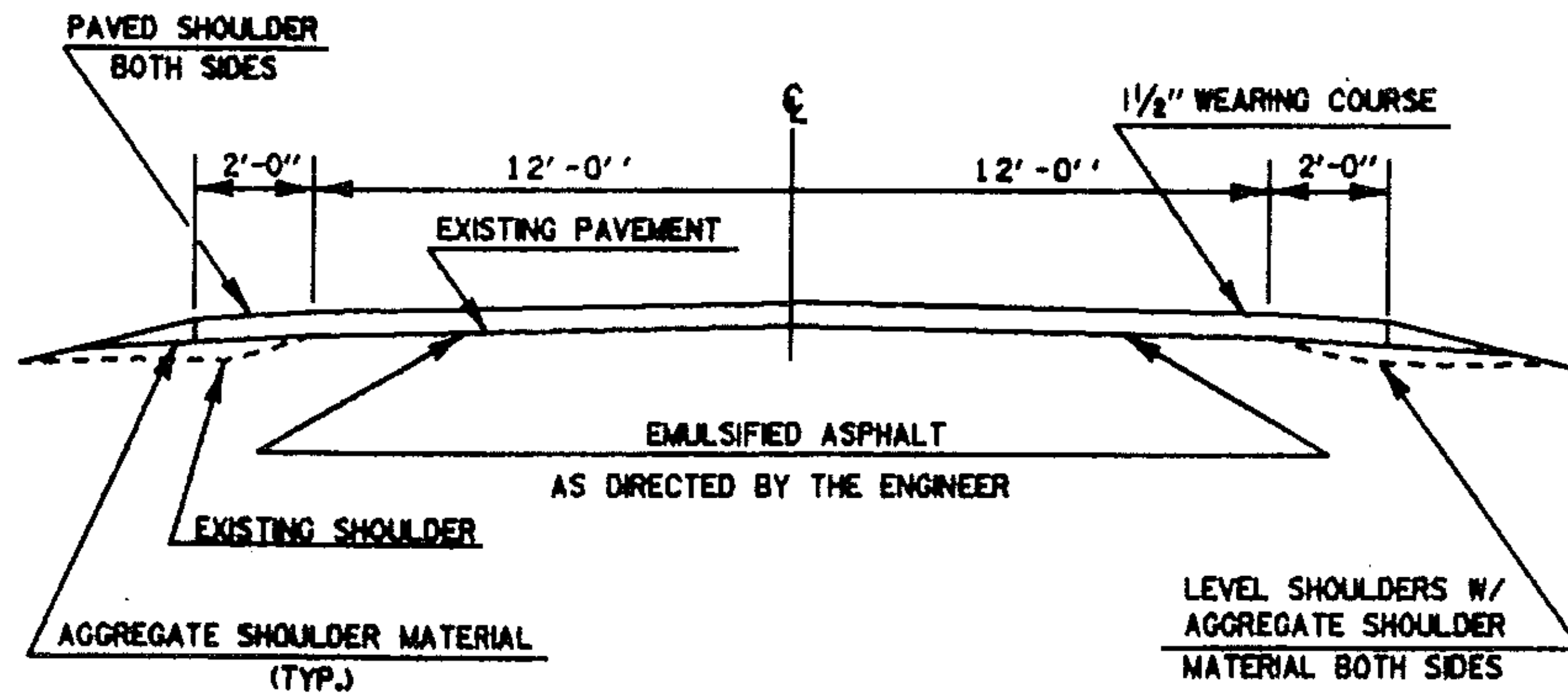
SHEET 23 OF 75 SHEETS

TYPICAL SECTIONS & DESIGN DATA

BITUMINOUS CONCRETE PAVEMENT
 LEVELING COURSE TYPE IV (386• & 273•• TONS/MILE)
 AS DIRECTED BY THE ENGINEER.
 1½" WEARING COURSE TYPE III (±¼" THICKNESS TOLERANCE)



U.S. 7 MM 2.407 ~ MM 2.441•



U.S. 7 MM 2.441 ~ MM 2.807**

NOTE: WHEN ENCOUNTERING VEGETATION OR POOR MATERIAL IN THE SHOULDER AREA, REMOVE 2" BELOW EXISTING PAVEMENT LEVEL AND REPLACE WITH AGGREGATE SHOULDER MATERIAL. REMOVAL OF THIS MATERIAL WILL BE PAID FOR UNDER THE ITEM 'ALL PURPOSE EXCAVATOR RENTAL' OR 'GRADER RENTAL'.

PROJECT BRANDON

NO. HMA 2813
 SHEET 4 OF 7 SHEETS
 SHEET 24 OF 75 SHEETS

TEMPORARY 4" YELLOW LINE

MILE	MILE	LT	RT	QUANTITY LT	QUANTITY C	QUANTITY RT	TOTAL
2.407	2.51	Solid	Solid	544		544	1088
2.51	2.55	Dash	Solid	53		211	264
2.55	2.74	Dash	Dash		1003		1003
2.74	2.807	Dash	Solid	88		354	442
						Subtotal	2797
				Assume 100% Loss Due To Leveling			2797
				Minus 1 Rdwy Opening @ 80'			-160
				x 2 courses of pavement			
						TOTAL	5434

TEMPORARY 4" WHITE LINE

2.407	2.807	Solid	Solid	2112		2112	4224

PROJECT Brandon

NO. HMA 2813
 SHEET 5 OF 7 SHEETS
 SHEET 25 OF 75 SHEETS

PROJECT LENGTHS AND ITEM QUANTITIES

ITEM DESCRIPTION	Length	Width	Overlay Depth	Aggregate Shoulders	Aggregate Shoulders	Emulsified Asphalt	Bituminous Asphalt	Power Grader Rental	All Purpose Concrete Pavement	Power Excavator Rental	Truck Rental	Uniformed Traffic Officers	Flaggers	Mobilization	Option
ITEM NO.				402.10	402.12	404.65	406.25	608.15	608.25	608.30	608.37	630.10	630.15	635.10	
UNIT	FT	FT	IN	CY	TON	CWT	TON	HR	HR	HR	HR	HR	HR	LS	
MM 2.407 2.807	2112	28	1 1/2	156	273	7	562	4	4	4	4	60	70	0.03	Includes Shoulders Level Course
Drives & Approaches				19	33		23								
Rounding				5	9	1	2	-	-	-	-	-	-	-	
TOTAL				180	315	8	700	4	4	4	4	60	70	.03	

PROJECT Brandon

NO. HMA 2813

SHEET 6 OF 7 SHEETS
SHEET 26 OF 75 SHEETS

STATE OF VERMONT
 AGENCY OF TRANSPORTATION



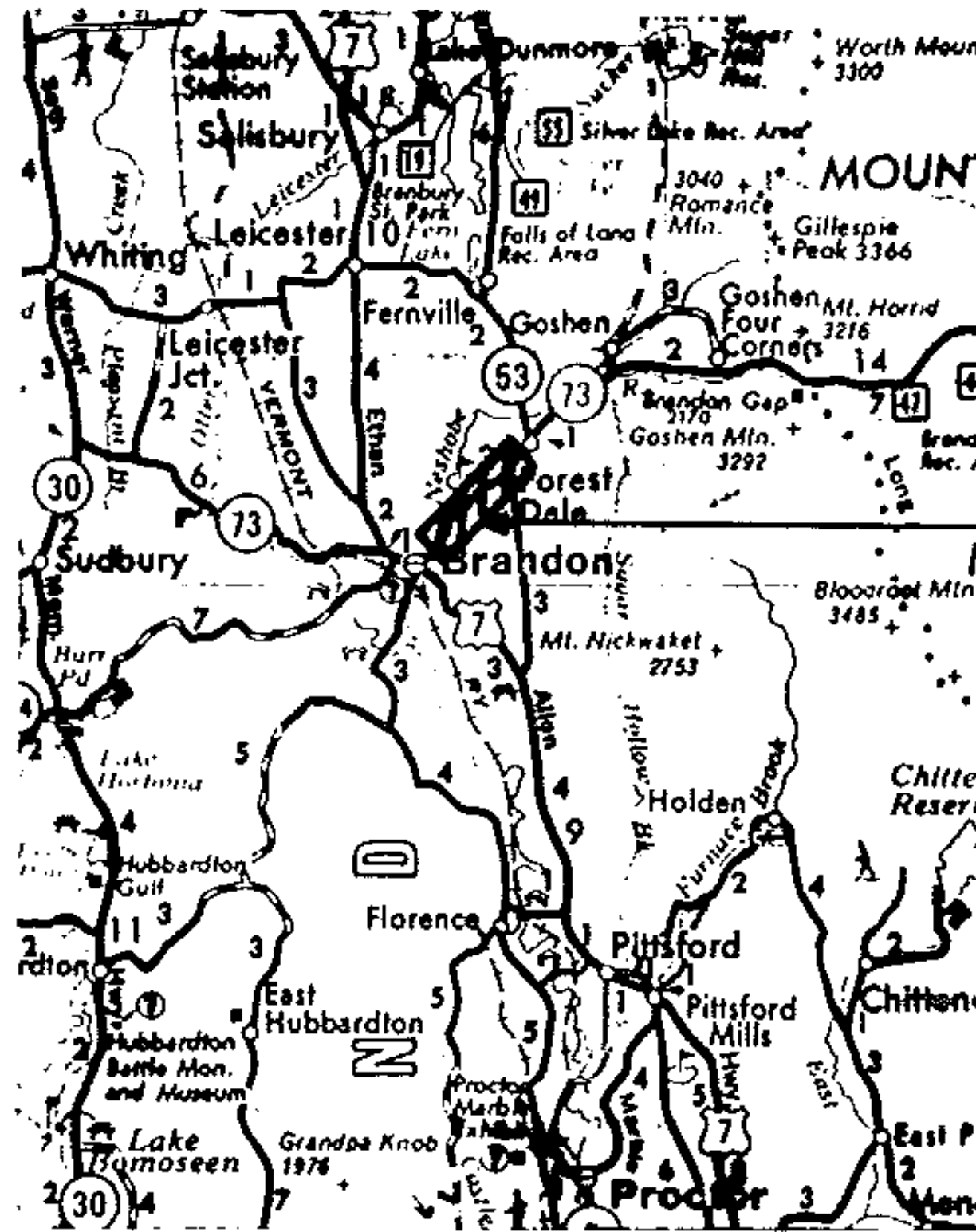
PROPOSED IMPROVEMENT

TOWN OF Brandon

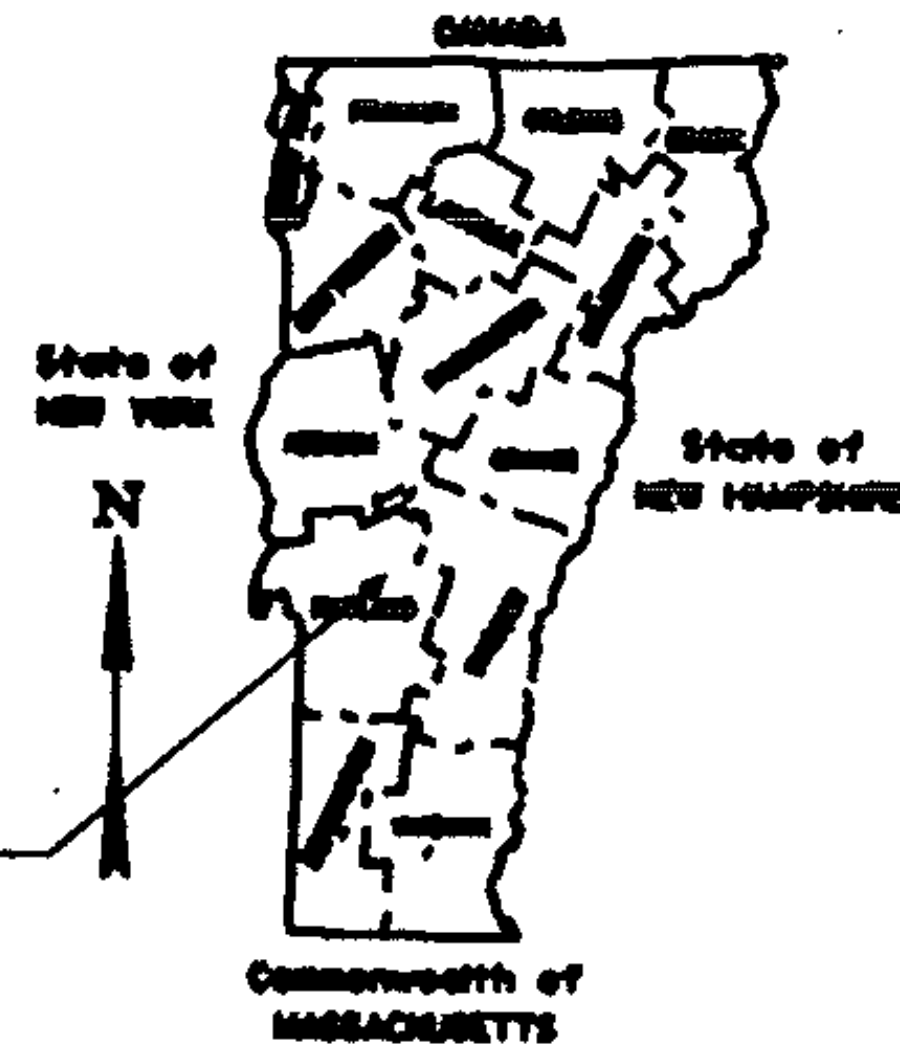
COUNTY OF Rutland

ROUTE NO. VT 73

ROUTE CLASS FAS



PROJECT
 HMA 2853



THESE PLANS ARE SUBJECT TO SUCH ENGINEERING CHANGES AS MAY BE REQUIRED BY THE FEDERAL HIGHWAY ADMINISTRATION OR THE CHIEF ENGINEER. CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 1956, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON NOVEMBER 2, 1956 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

SUBMITTED BY ORDER OF THE STATE TRANSPORTATION BOARD

APPROVED _____ DATE _____
 CHIEF ENGINEER

DEPARTMENT OF TRANSPORTATION
 FEDERAL HIGHWAY ADMINISTRATION

APPROVED _____ DATE _____
 DIVISION ADMINISTRATOR

Brandon
 PROJECT HMA # 2853

SHEET 1 OF 7 SHEETS

SHEET 28 OF 75 SHEETS

See Sheet 1 For Index

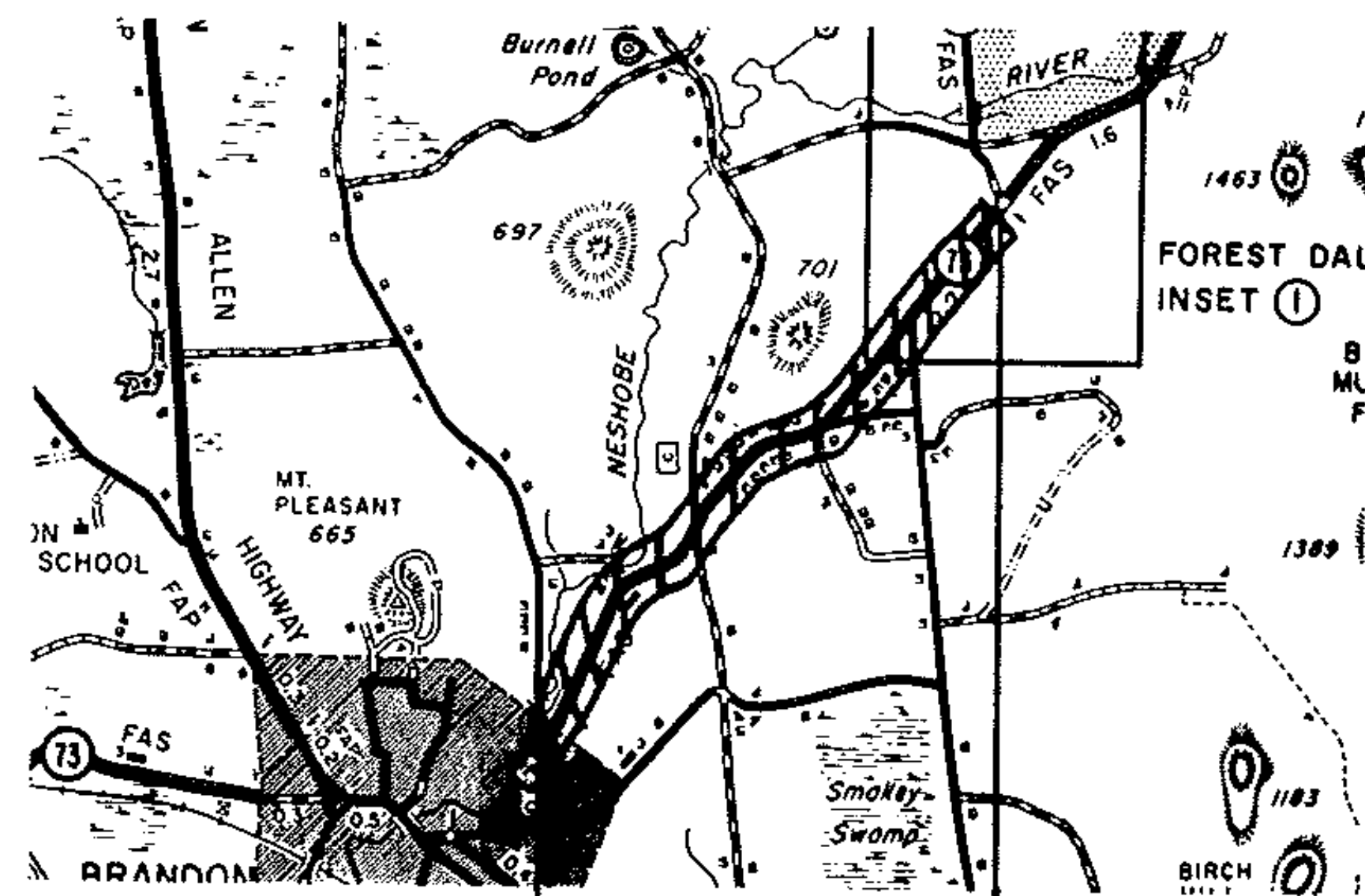
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4. TYPICAL SECTIONS AND DESIGN DATA
5. PAVEMENT MARKING LOCATIONS
- 6-7. PROJECT LENGTHS AND ITEM QUANTITIES

PROJECT BRANDON

NO. HMA 2853
SHEET 2 OF 7 SHEETS
SHEET 29 OF 75 SHEETS

DESCRIPTION AND LOCATION



Scale: 1" = 1 mile

Begin Project HMA 2853
MM 3.600

End Project HMA 2853
MM 5.853

Beginning at a point on VT 73, 3.600 miles northerly of the Sudbury-Brandon town line, and extending 2.253 miles easterly to MM 5.853.

Work consists of resurfacing of the highway, including shoulders and new pavement markings.

1986 ADT 2410

Length of Project = 2.253 miles
11896 feet

PROJECT Brandon

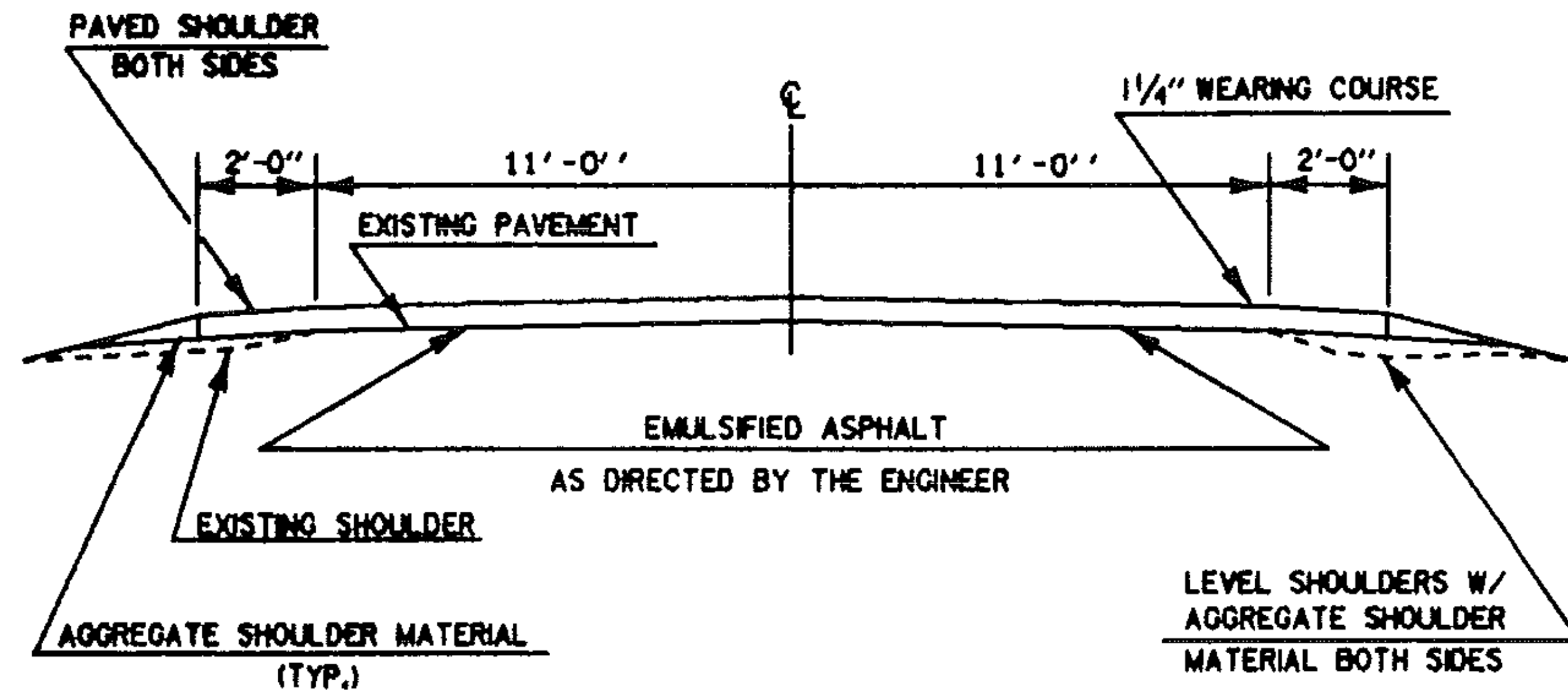
NO. HMA 2853

SHEET 3 OF 7 SHEETS

SHEET 30 OF 75 SHEETS

TYPICAL SECTIONS & DESIGN DATA

BITUMINOUS CONCRETE PAVEMENT
 LEVELING COURSE TYPE IV (355 TONS/MILE)
 AS DIRECTED BY THE ENGINEER.
 1 1/4" WEARING COURSE TYPE III (±1/4" THICKNESS TOLERANCE)



VT. 73 MM 3.600 ~ MM 5.853

NOTE : WHEN ENCOUNTERING VEGETATION OR POOR MATERIAL IN THE SHOULDER AREA, REMOVE 2" BELOW EXISTING PAVEMENT LEVEL AND REPLACE WITH AGGREGATE SHOULDER MATERIAL. REMOVAL OF THIS MATERIAL WILL BE PAID FOR UNDER THE ITEM 'ALL PURPOSE EXCAVATOR RENTAL' OR 'GRADER RENTAL'.

PROJECT BRANDON

NO. HMA 2853
 SHEET 4 OF 7 SHEETS
 SHEET 31 OF 75 SHEETS

TEMPORARY 4" YELLOW LINE

MILE	MILE	LT	RT	QUANTITY LT	QUANTITY ¢	QUANTITY RT	TOTALS
3.600	3.64	Solid	Solid	211		211	422
3.64	3.70	Solid	Dash	317		79	396
3.70	3.96	Dash	Dash		343		343
3.96	4.08	Dash	Solid	158		634	792
4.08	4.51	Solid	Solid	2270		2270	4540
4.51	4.63	Solid	Dash	634		158	792
4.63	4.77	Dash	Solid	185		739	924
4.77	5.06	Solid	Solid	1531		1531	3062
5.06	5.20	Solid	Dash	739		185	924
5.20	5.32	Dash	Dash		158		158
5.32	5.853	Solid	Solid	2814		2814	5628
						Subtotal	17981
				Assume 100% Loss Due to Leveling			17981
				Minus 8 Rdwy Openings @ 80' Ea			-1280
				x2 Courses of Pavement			
						TOTAL	34682

TEMPORARY 4" WHITE LINE

3.600	5.853	Solid	Solid	11896		11896	23792

PROJECT Brandon

NO. HMA 2853
 SHEET 5 OF 7 SHEETS
 SHEET 32 OF 75 SHEETS

PROJECT LENGTHS AND ITEM QUANTITIES

ITEM DESCRIPTION	Option															
	Length	Width	Overlay	Depth	Aggregate Shoulders	Aggregate Shoulders	Emulsified Asphalt	Bituminous Asphalt	Power Grader Concrete Pavement	All Purpose Grader Rental	Power Excavator Rental	Truck Broom Rental	Truck Rental	Uniformed Traffic Officers	Mobilization	
ITEM NO.					402.10	402.12	404.65	406.25	605.15	608.25	608.30	608.37	630.10	630.15	635.10	
UNIT	FT	FT	IN		CY	TON	CWT	TON	HR	HR	HR	HR	HR	HR	LS	
MM 3.600	11896	26	1 1/4		936	1638	37	2387	35	35	20	35	280	325	0.14	Includes Shoulders
5.853								800								Level Course
Drives + Approaches					150	263		171								
Rounding					14	24	3	2	-	-	-	-	-	-	-	
TOTALS					1100	1925	40	3360	35	35	20	35	280	325	0.14	

STATE OF VERMONT
 AGENCY OF TRANSPORTATION



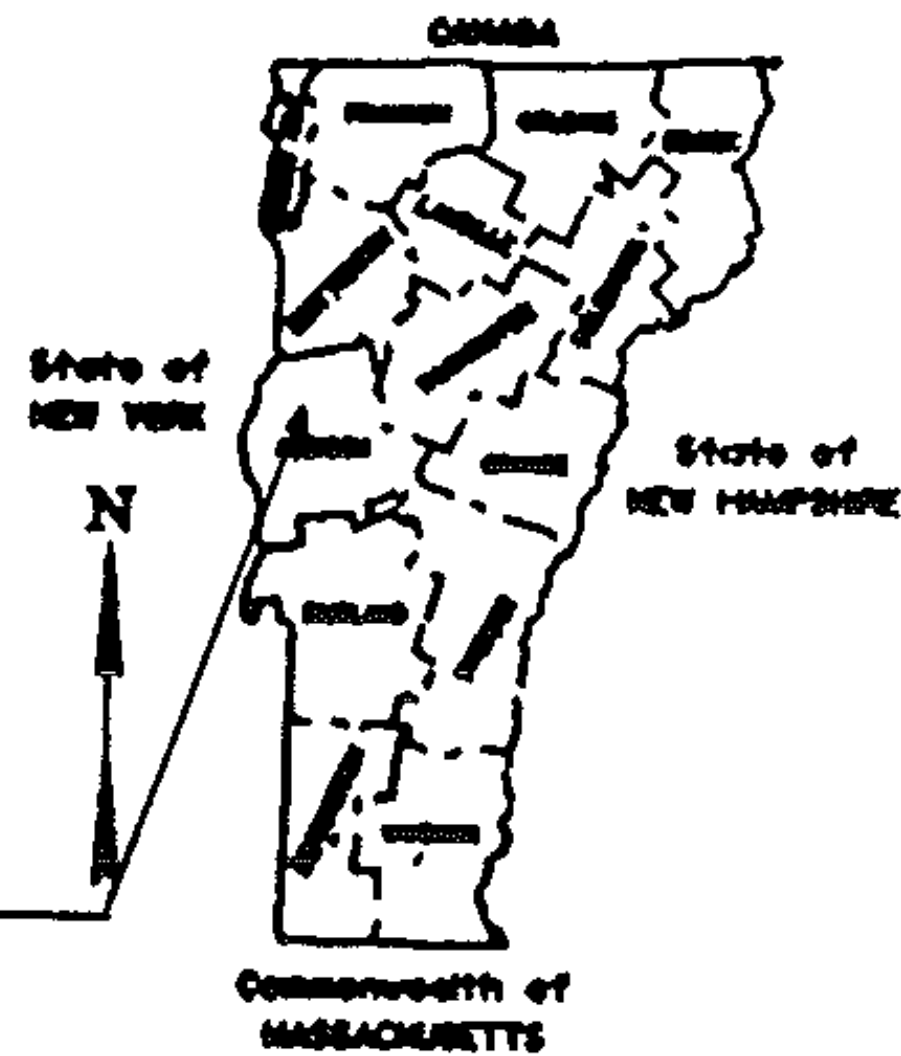
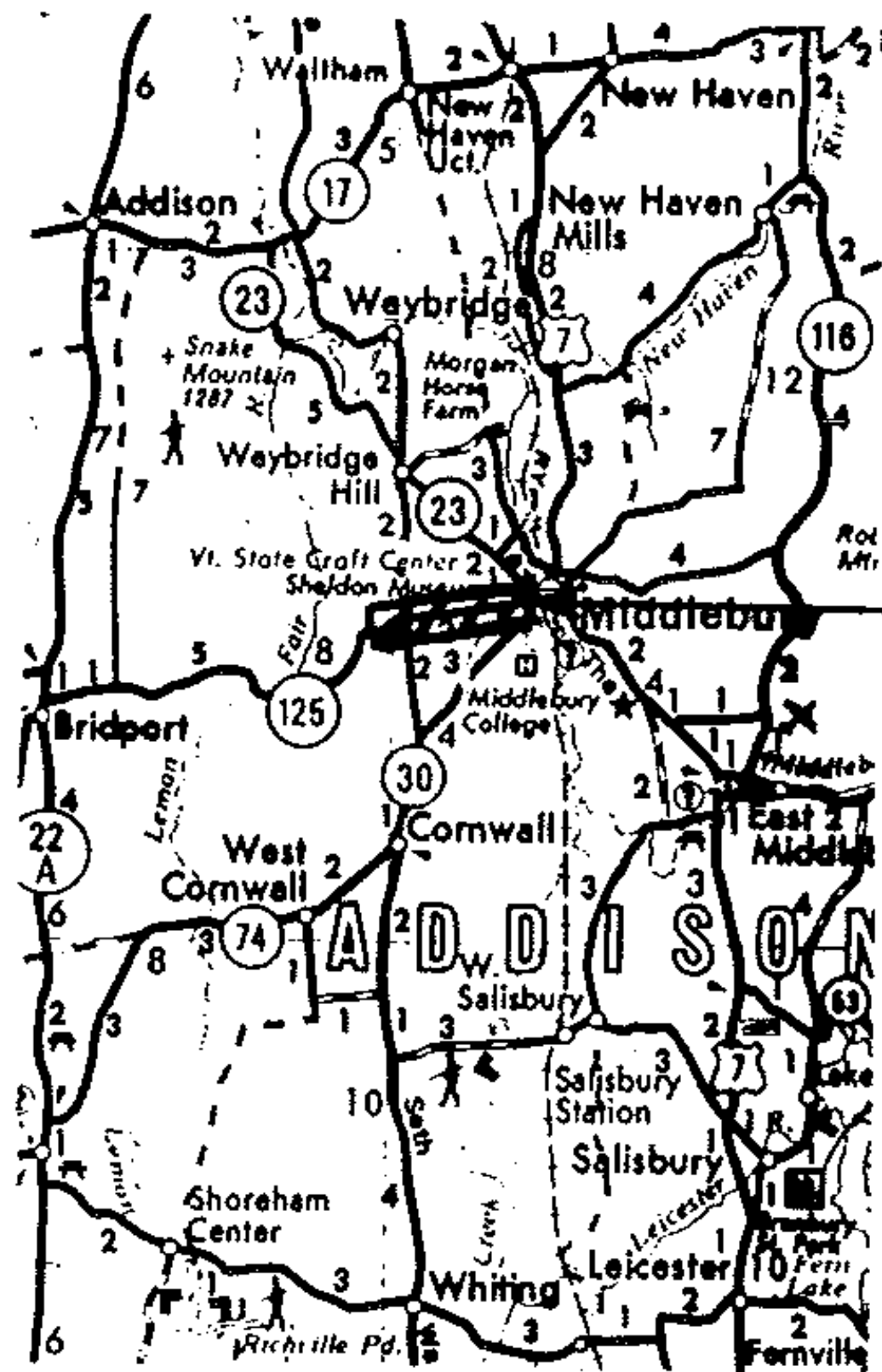
PROPOSED IMPROVEMENT

TOWN OF Cornwall - Middlebury

COUNTY OF Addison

ROUTE NO. VT 125

ROUTE CLASS FAS



THESE PLANS ARE SUBJECT TO SUCH ENGINEERING CHANGES AS MAY BE REQUIRED BY THE FEDERAL HIGHWAY ADMINISTRATION OR THE CHIEF ENGINEER. CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 1964, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON NOVEMBER 9, 1966 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

SUBMITTED BY ORDER OF THE STATE TRANSPORTATION BOARD

APPROVED _____ DATE _____
 CHIEF ENGINEER

DEPARTMENT OF TRANSPORTATION
 FEDERAL HIGHWAY ADMINISTRATION

APPROVED _____ DATE _____
 DIVISION ADMINISTRATOR

Cornwall - Middlebury
 PROJECT HMA # 2825

SHEET 1 OF 7 SHEETS

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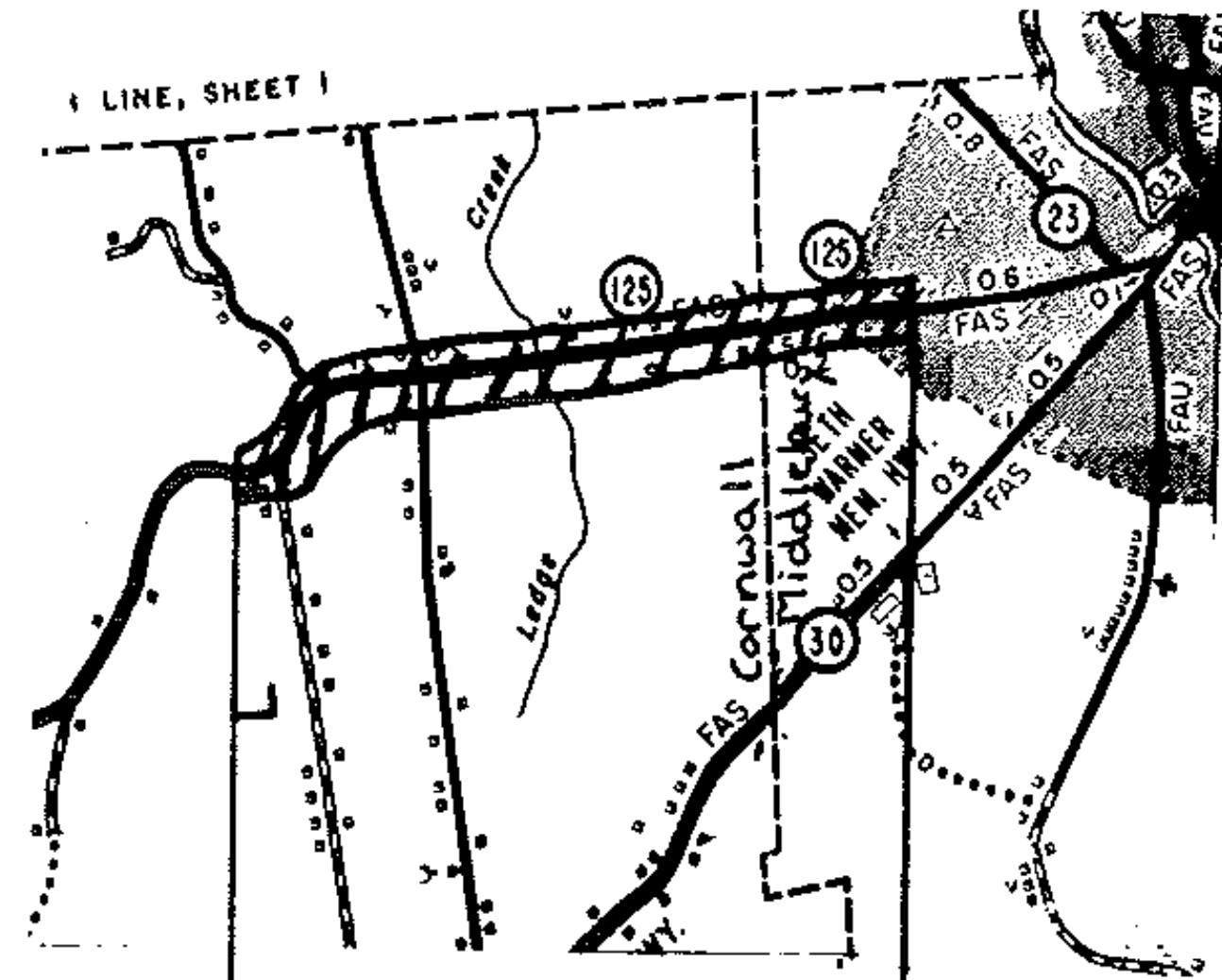
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PROJECT CORNWALL-MIDDLEBURY

NO. HMA 2825

SHEET 2 OF 7 SHEETS
SHEET 36 OF 75 SHEETS

DESCRIPTION AND LOCATION



scale: 1" = 1 mile

Begin Project HMA 2825
MM 2.596

End Project HMA 2825
MM 0.400

Beginning at a point on VT 125, 2.596 miles easterly of the Bridport - Cornwall town line and extending easterly 2.062 miles to MM 0.400 in the town of Middlebury

Work consists of resurfacing of the highway, including shoulders and new pavement markings

1986 ADT 1490

Length of Project 2.062 miles
10887 feet

PROJECT Cornwall - Middlebury

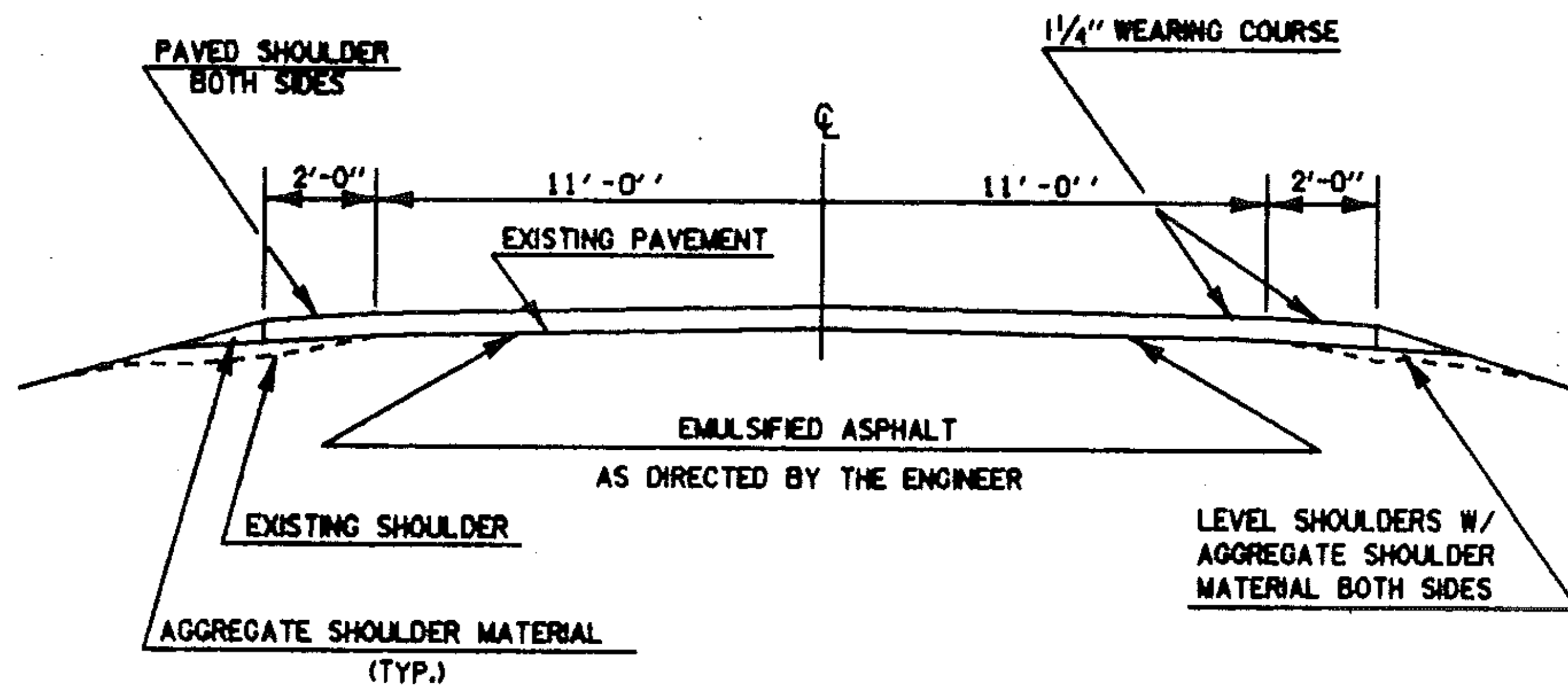
NO. HMA 2825

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SHEET 37 OF 75 SHEETS

TYPICAL SECTIONS & DESIGN DATA

BITUMINOUS CONCRETE PAVEMENT
 LEVELING COURSE TYPE IV (355 TONS/MILE)
 AS DIRECTED BY THE ENGINEER.
 1 1/4" WEARING COURSE TYPE III (±1/4" THICKNESS TOLERANCE)



CORNWALL MIDDLEBURY
 VT. 125 MM 2.596 ~ MM 0.400

NOTE : WHEN ENCOUNTERING VEGETATION OR POOR MATERIAL IN THE SHOULDER AREA,
 REMOVE 2" BELOW EXISTING PAVEMENT LEVEL AND REPLACE WITH AGGREGATE
 SHOULDER MATERIAL. REMOVAL OF THIS MATERIAL WILL BE PAID FOR UNDER
 THE ITEM 'ALL PURPOSE EXCAVATOR RENTAL' OR 'GRADER RENTAL'.

PROJECT CORNWALL-MIDDLEBURY

NO. HMA 2825
 SHEET 4 OF 7 SHEETS
 SHEET 38 OF 75 SHEETS

TEMPORARY 4" YELLOW LINE

MILE	MILE	LT	RT	QUANTITY LT	QUANTITY €	QUANTITY RT	TOTALS
2.596	3.26	Solid	Solid	3506		3506	7012
3.26	3.36	Solid	Dash	528		132	660
3.36	3.71	Dash	Dash		462		462
3.71	4.26	Solid	Solid	2904		2904	5808
0.00	0.400	Solid	Solid	2112		2112	4224
						Subtotal	18166
				Assume 100% Loss Due To Leveling			18166
				Minus 4 Rdwy Openings @ 80' Ea			-640
				x 2 courses of pavement			
						TOTAL	35692

TEMPORARY 4" WHITE LINE

2.596	0.400	Solid	Solid	10887		10887	21774

PROJECT LENGTHS AND ITEM QUANTITIES

ITEM DESCRIPTION	Length		Width		Overlay Depth		Aggregate Shoulders		Emulsified Asphalt		Bituminous Concrete Pavement		Power Grader Rental		Power Excavator Rental		Truck Rental		Uniformed Traffic Officers		Flaggers Mobilization	
	ITEM NO.	FT	FT	IN		402.10	402.12	404.65	406.25	608.15	608.25	608.30	608.37	630.10	630.15	635.10						
UNIT	FT	FT	IN		CY	TON	CWT	TON	HR	HR	HR	HR	HR	HR	LS							
MM 2.596 0.400	10887	26	1 1/4		907	1587	33	2184	20	20	20	20	250	290	0.13	Includes Shoulders Level Course						
Drives + Approaches					16	28		56														
Rounding					2	5	2	2	-	-	-	-	-	-	-							
TOTAL					925	1620	35	2960	20	20	20	20	250	290	0.13							

STATE OF VERMONT
 AGENCY OF TRANSPORTATION



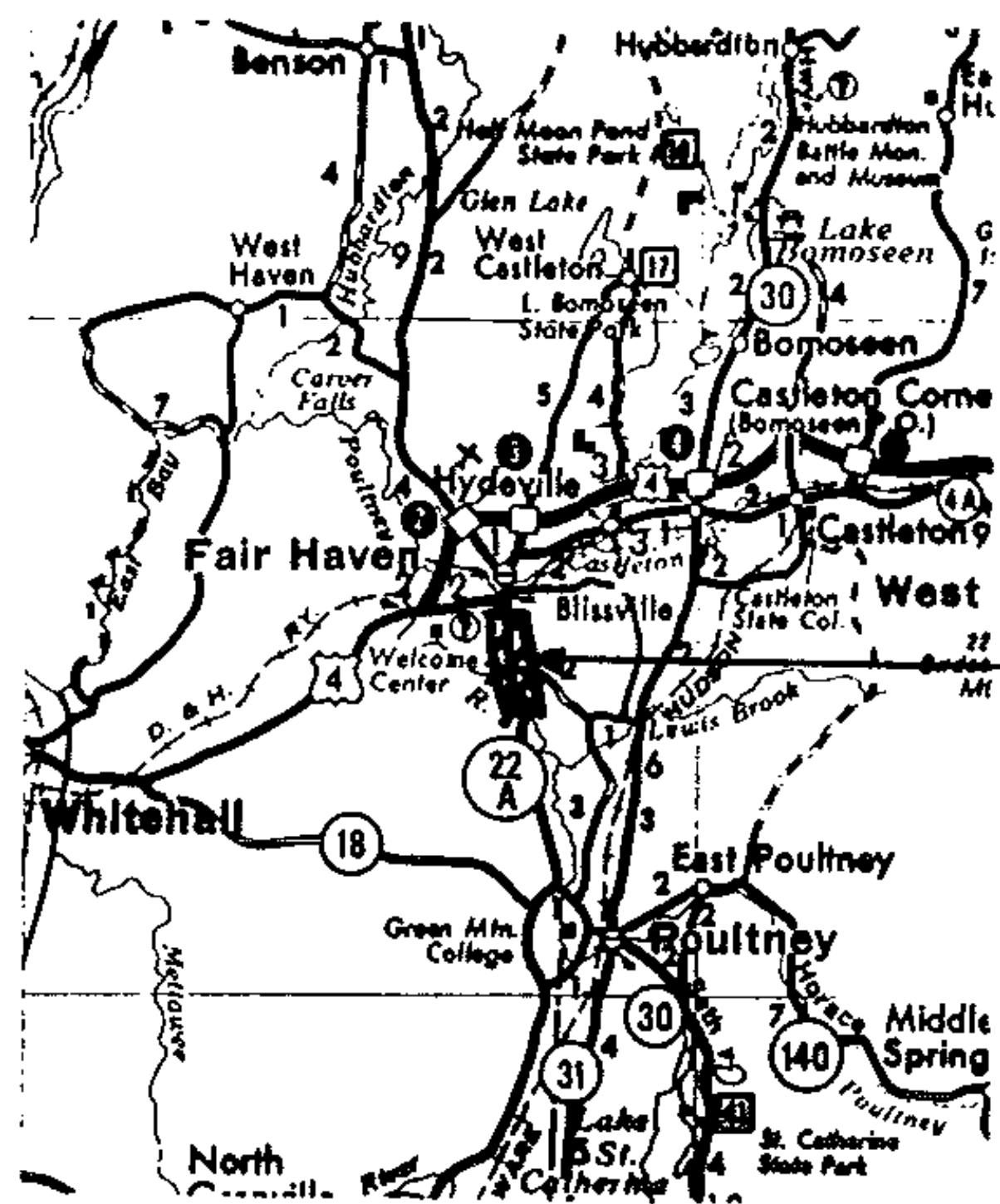
PROPOSED IMPROVEMENT

TOWN OF Fair Haven

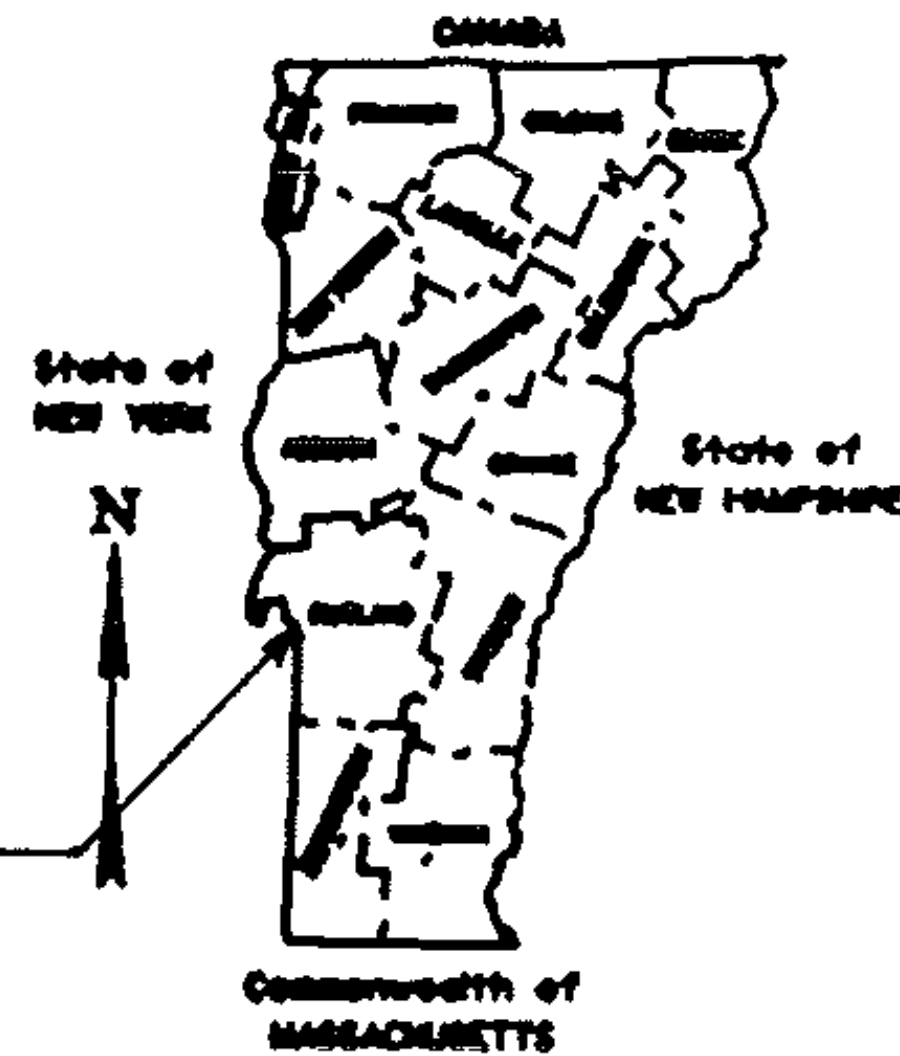
COUNTY OF Rutland

ROUTE NO. VT 22-A

ROUTE CLASS FAS



PROJECT
 HMA 2859



THESE PLANS ARE SUBJECT TO SUCH ENGINEERING CHANGES AS MAY BE REQUIRED BY THE FEDERAL HIGHWAY ADMINISTRATION OR THE CHIEF ENGINEER. CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 1984, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON NOVEMBER 8, 1985 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

SUBMITTED BY ORDER OF THE STATE TRANSPORTATION BOARD	
APPROVED _____	DATE _____
CHIEF ENGINEER	
DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION	
APPROVED _____	DATE _____
DIVISION ADMINISTRATOR	
Fair Haven PROJECT HMA NO. 2859	
SHEET 1 OF 7 SHEETS	

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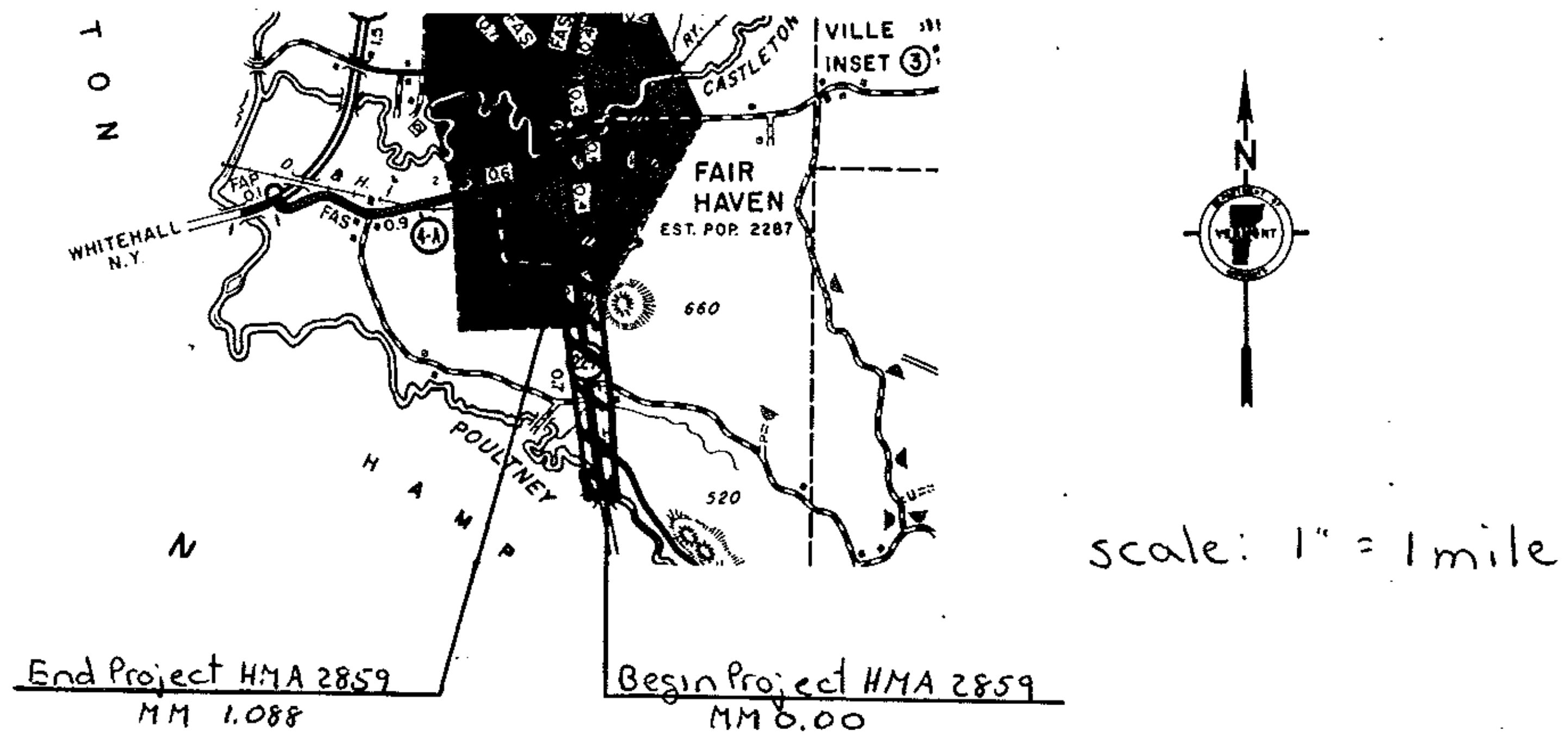
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PROJECT FAIR HAVEN

NO. HMA 2859

SHEET 2 OF 7 SHEETS
SHEET 43 OF 75 SHEETS

DESCRIPTION AND LOCATION



Beginning at a point on UT 22-A, at the NY-VT state line, in the town of Fair Haven, extending northerty 1.088 miles to MM 1.088.

Work consists of resurfacing of the highway, including shoulders and new pavement markings.

1986 ADT 1940	Length of Project	1.088 miles
		5745 feet

PROJECT Fair Haven

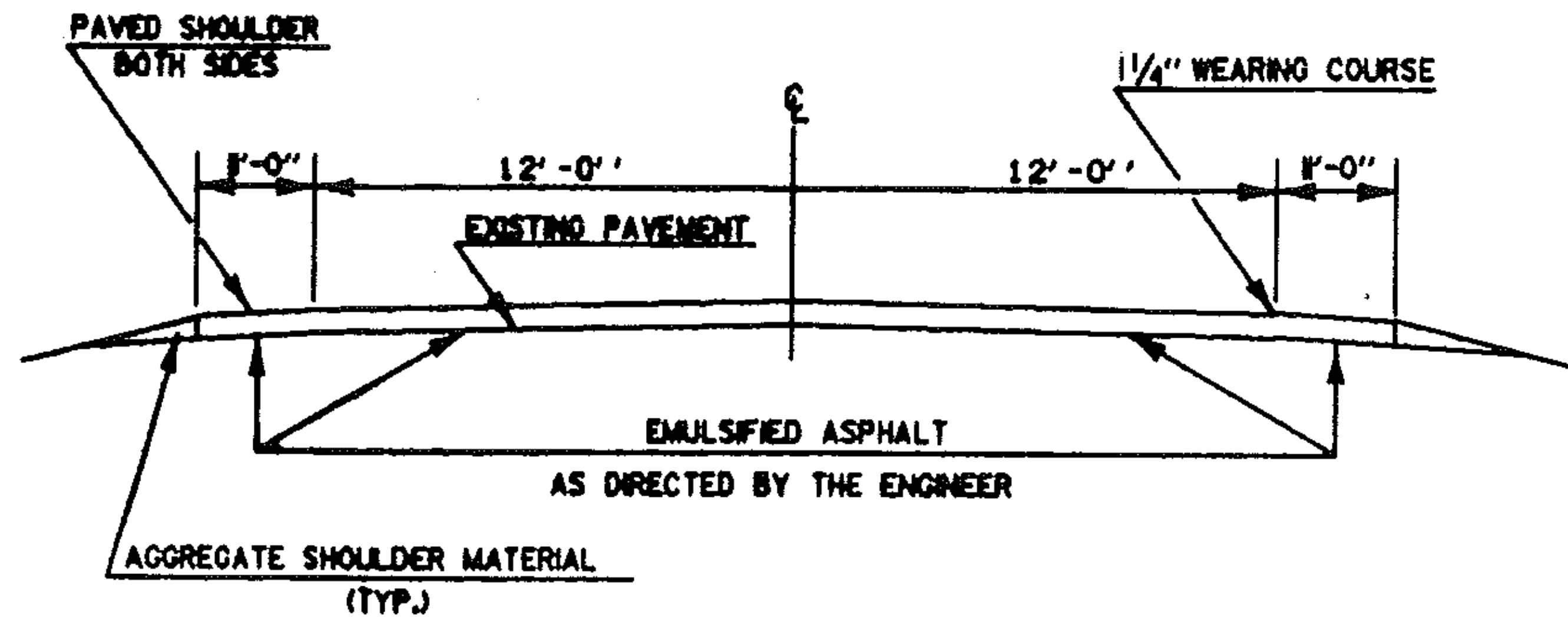
NO. HMA 2859

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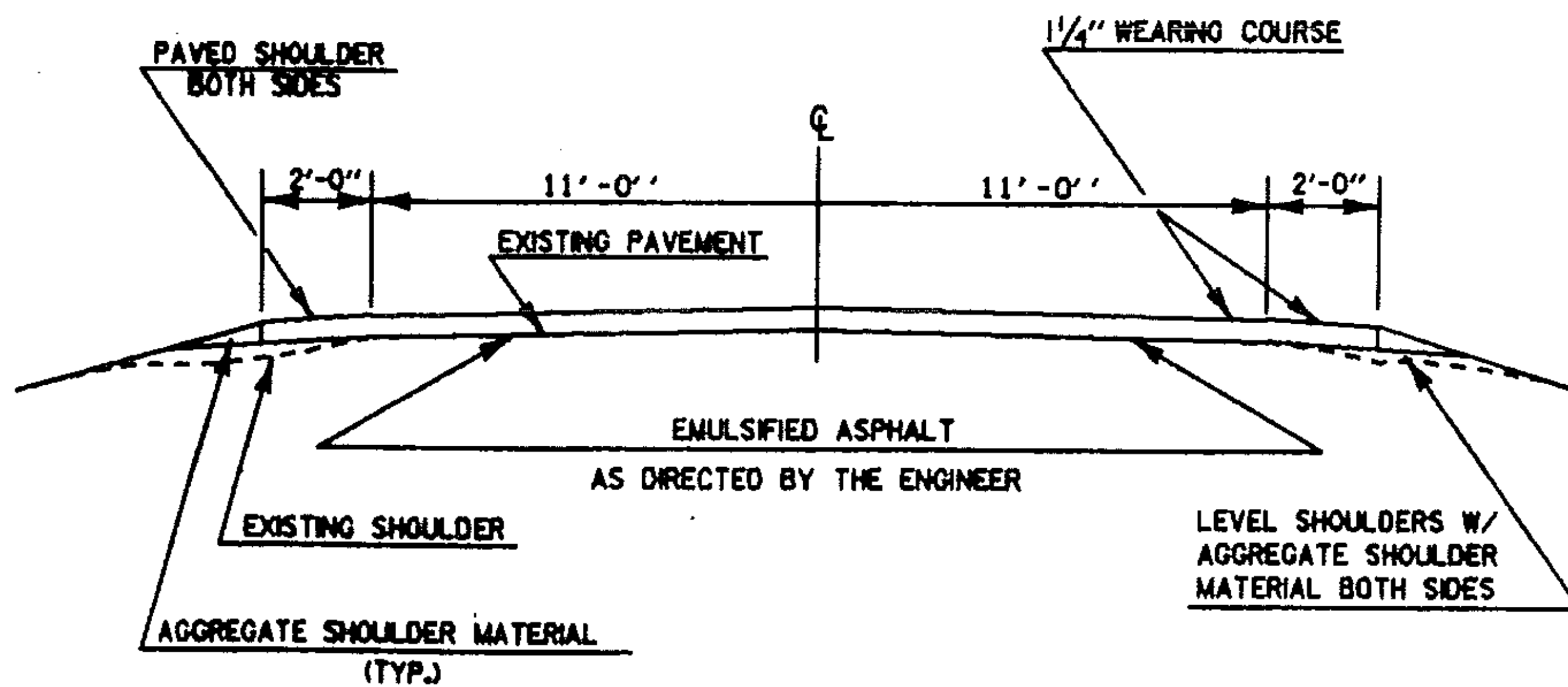
SHEET 44 OF 75 SHEETS

TYPICAL SECTIONS & DESIGN DATA

BITUMINOUS CONCRETE PAVEMENT
 LEVELING COURSE TYPE IV (627* & 355** TONS/MILE)
 AS DIRECTED BY THE ENGINEER.
 1 1/4" WEARING COURSE TYPE III (±1/4" THICKNESS TOLERANCE)



VT. 22A MM 0.000 ~ MM 0.237*



VT. 22A MM 0.237 ~ MM 1.088**

NOTE: WHEN ENCOUNTERING VEGETATION OR POOR MATERIAL IN THE SHOULDER AREA, REMOVE 2" BELOW EXISTING PAVEMENT LEVEL AND REPLACE WITH AGGREGATE SHOULDER MATERIAL. REMOVAL OF THIS MATERIAL WILL BE PAID FOR UNDER THE ITEM 'ALL PURPOSE EXCAVATOR RENTAL' OR 'GRADER RENTAL'.

PROJECT FAIR HAVEN

No. HMA 2859
 SHEET 4 OF 7 SHEETS
 SHEET 45 OF 75 SHEETS

TEMPORARY 4" YELLOW LINE

MILE	MILE	LT	RT	QUANTITY LT	QUANTITY C	QUANTITY RT	TOTALS
0.000	0.17	Solid	Solid	898		898	1796
0.17	0.26	Solid	Dash	475		1190	594
0.26	0.32	Dash	Dash		79		79
0.32	0.39	Dash	Solid	92		370	462
0.39	0.46	Solid	Solid	370		370	740
0.46	0.53	Solid	Dash	370		92	462
0.53	0.61	Dash	Dash		106		106
0.61	0.64	Dash	Solid	40		158	198
0.64	1.088	Solid	Solid	2365		2365	4730
						Subtotal	9167
						Assume 100% Loss Due To Leveling	9167
						Minus 4 Rdwy Openings @ 80' Ea x2 courses of pavement	-640
						TOTAL	17694

TEMPORARY 4" WHITE LINE

0.000	1.088	Solid	Solid	5745		5745	11490

PROJECT LENGTHS AND ITEM QUANTITIES

ITEM DESCRIPTION	Option															
	Length	Width	Overlay	Depth	Aggregate Shoulders	Aggregate Shoulders	Emulsified Asphalt	Bituminous Asphalt	Power Grader Rental	All Purpose Concrete Pavement	Power Excavator Rental	Truck Broom Rental	Truck Rental	Uniformed Traffic Officers	Mobilization	
ITEM NO.					402.10	402.12	404.65	406.25	608.15	608.25	608.30	608.37	630.10	630.15	635.10	
UNIT	FT	FT	IN		CY	TON	CWT	TON	HR	HR	HR	HR	HR	HR	LS	
MM 0.000 0.237	1113	46	1 1/4		0	0	7	395								Includes Shoulders Level Course
MM 0.237 1.088	4632	26	1 1/4		386	676	16	940								Includes Shoulders Level Course
Drives & Approaches					25	4		66								
MM 0.000 1.088									12	12	10	12	155	200	0.07	
Rounding					4	9	2	8	-	-	-	-	-	-	-	
TOTAL					415	730	25	1860	12	12	10	12	155	200	0.07	

STATE OF VERMONT
 AGENCY OF TRANSPORTATION



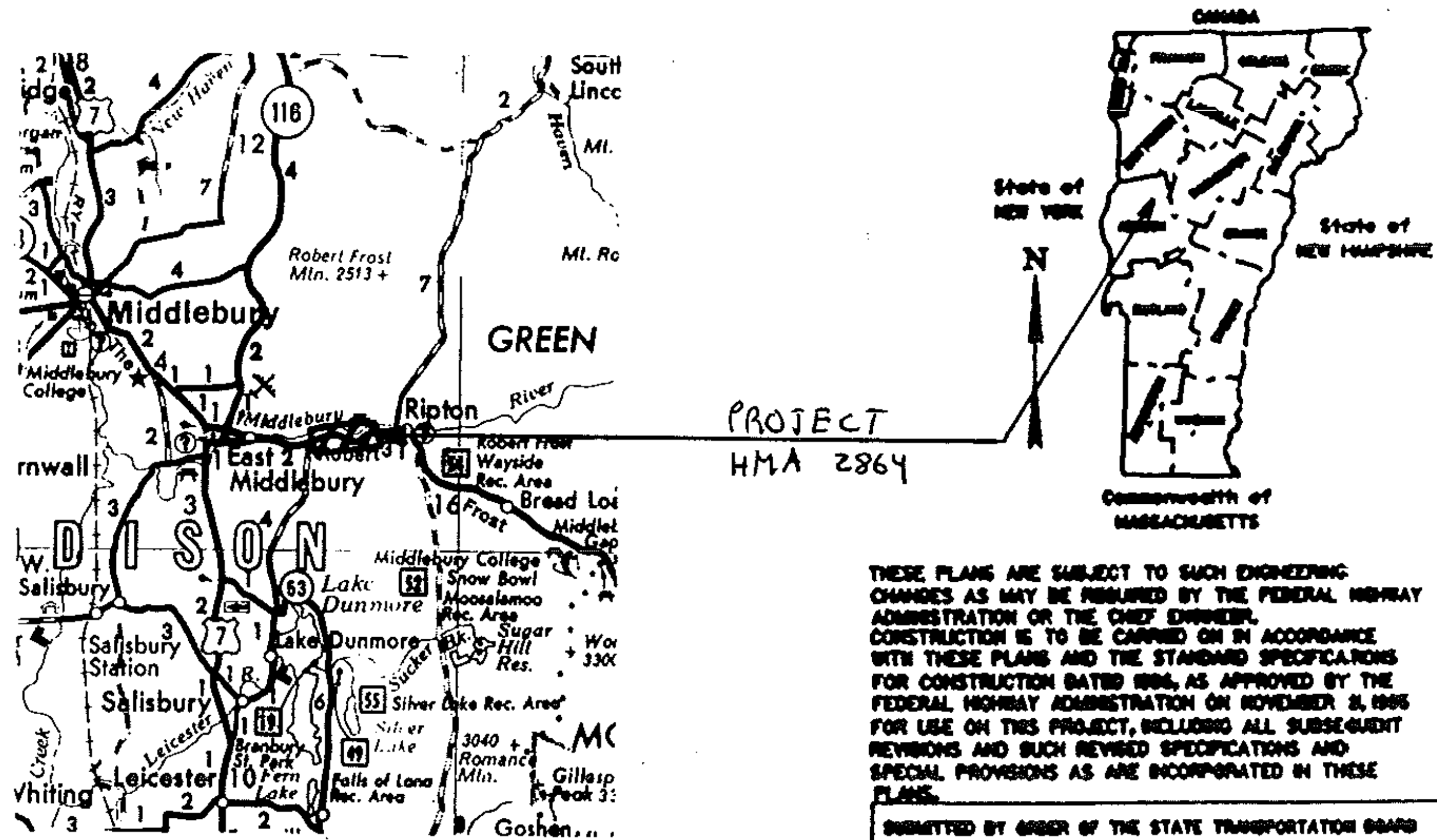
PROPOSED IMPROVEMENT

TOWN OF Ripton

COUNTY OF Addison

ROUTE NO. UT 125

ROUTE CLASS FAS



PROJECT
 HMA 2864

THESE PLANS ARE SUBJECT TO SUCH ENGINEERING CHANGES AS MAY BE REQUIRED BY THE FEDERAL HIGHWAY ADMINISTRATION OR THE CHIEF ENGINEER. CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 1984, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON NOVEMBER 21, 1985 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

SUBMITTED BY ORDER OF THE STATE TRANSPORTATION BOARD

APPROVED _____ DATE _____
 CHIEF ENGINEER

DEPARTMENT OF TRANSPORTATION
 FEDERAL HIGHWAY ADMINISTRATION

APPROVED _____ DATE _____
 DIVISION ADMINISTRATOR

Ripton
 PROJECT HMA # 2864

SHEET 1 OF 8 SHEETS

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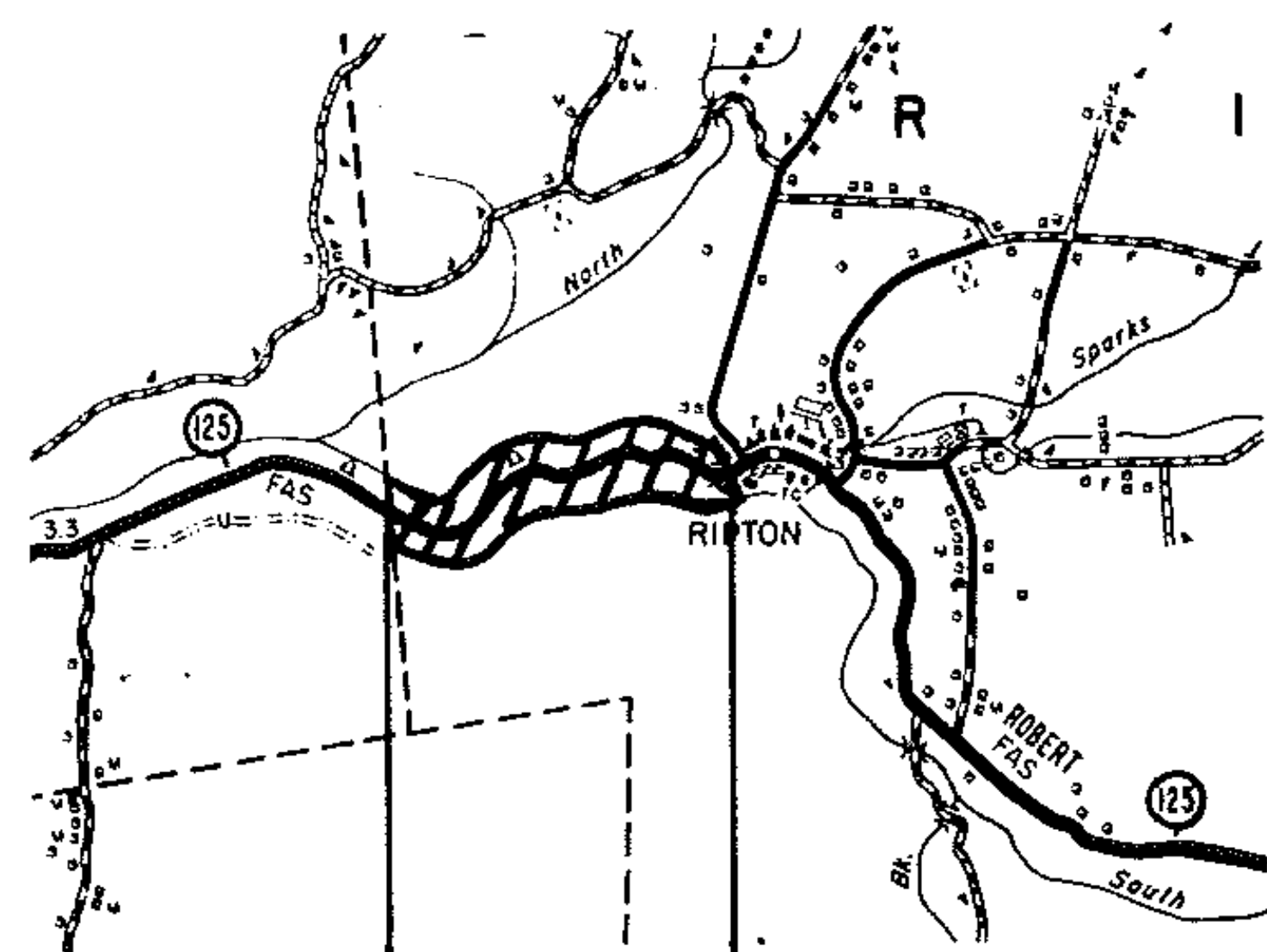
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- 7-8. PROJECT LENGTHS AND ITEM QUANTITIES

PROJECT RIPTON

NO. HMA 2864
SHEET 2 OF 11 SHEETS
SHEET 50 OF 75 SHEETS

DESCRIPTION AND LOCATION



scale: 1" = 1 mile

End Project HMA 2864
MM 1.164

Begin Project HMA 2864
MM 0.00

Beginning at a point on VT 125,
on the Middlebury - Ripton town line and
extending 1.164 miles easterly to MM 1.164

Work consists of resurfacing of
the highway, including shoulders and
pavement markings

1986 ADT 1600

Length of Project 1.164 miles
6146 feet

PROJECT Ripton

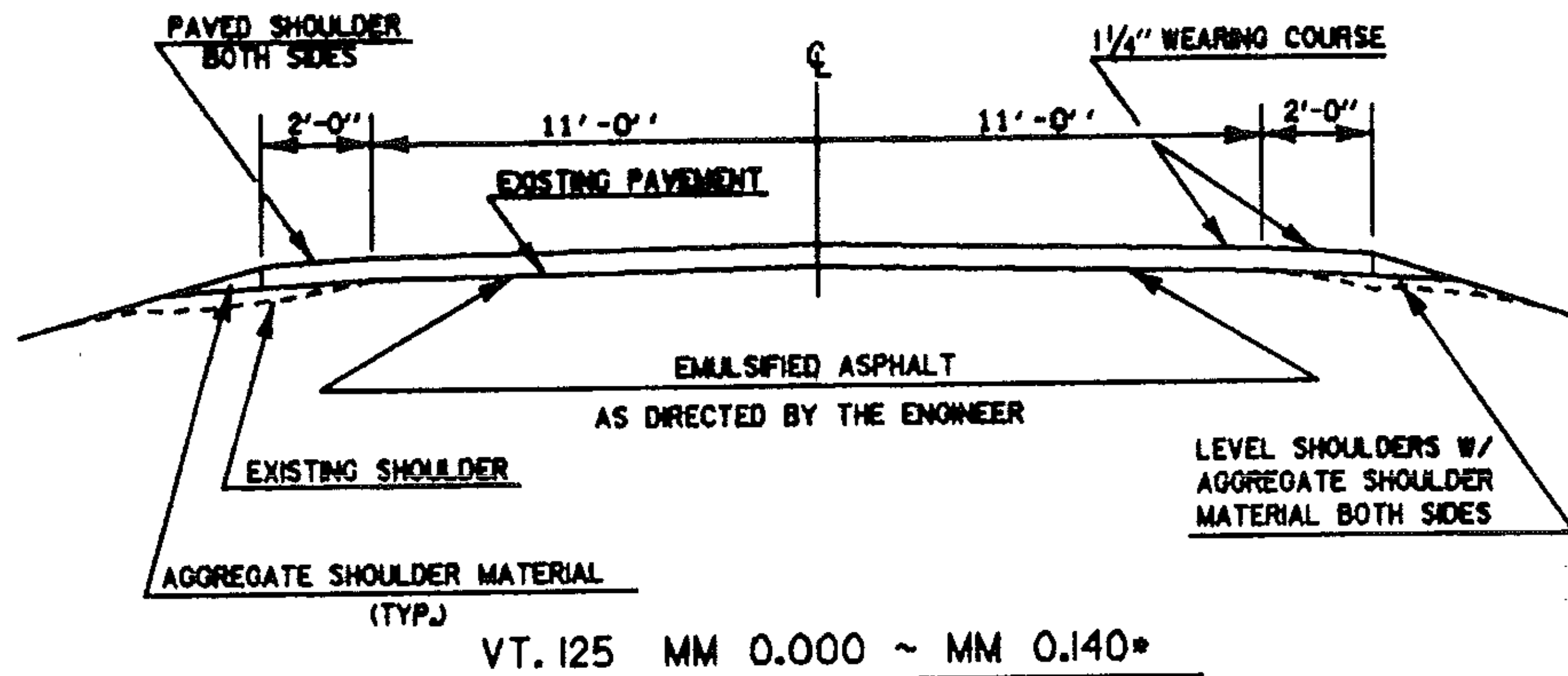
NO. HMA 2864

SHEET 3 OF 8 SHEETS

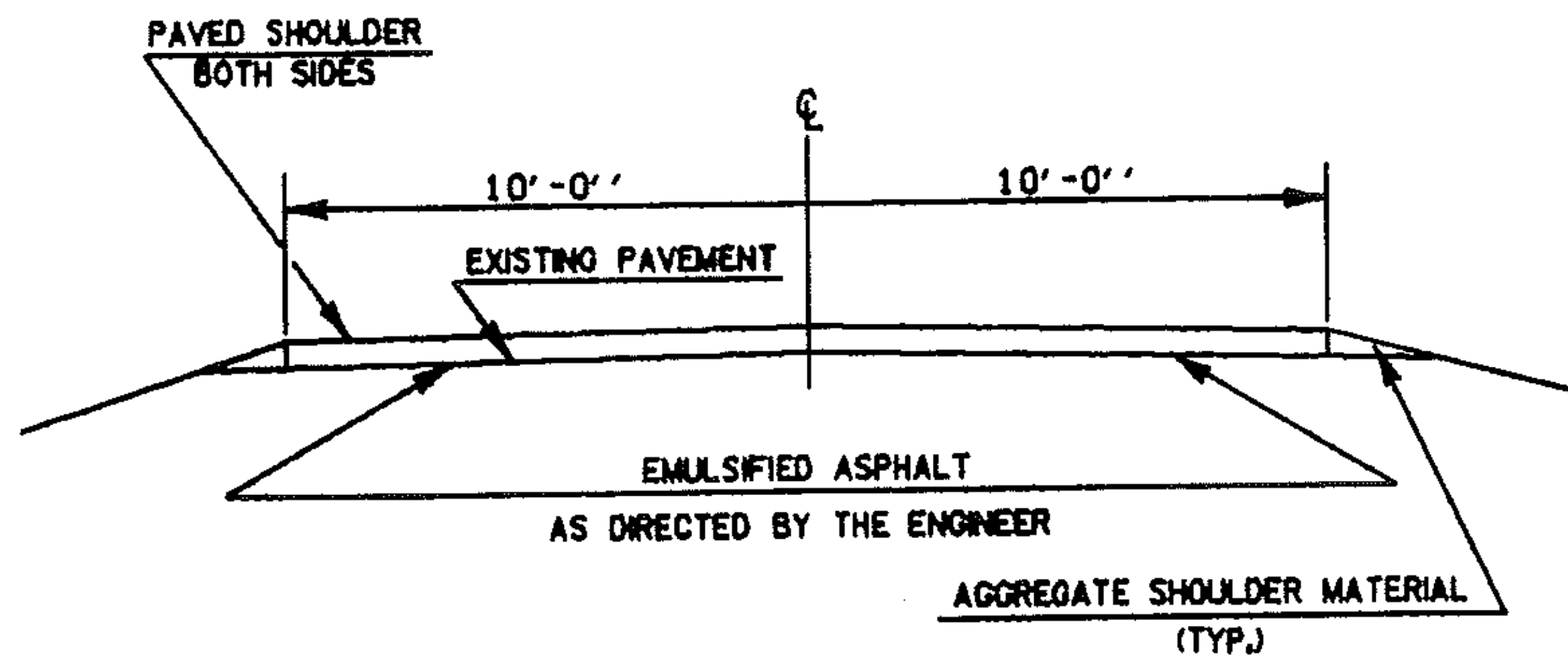
SHEET 51 OF 75 SHEETS

TYPICAL SECTIONS & DESIGN DATA

BITUMINOUS CONCRETE PAVEMENT
 LEVELING COURSE TYPE IV (295* & 227** TONS/MILE)
 AS DIRECTED BY THE ENGINEER.
 1 1/4" WEARING COURSE TYPE III (±1/4" THICKNESS TOLERANCE)



NOTE : WHEN ENCOUNTERING VEGETATION OR POOR MATERIAL IN THE SHOULDER AREA, REMOVE 2" BELOW EXISTING PAVEMENT LEVEL AND REPLACE WITH AGGREGATE SHOULDER MATERIAL. REMOVAL OF THIS MATERIAL WILL BE PAID FOR UNDER THE ITEM 'ALL PURPOSE EXCAVATOR RENTAL' OR 'GRADER RENTAL'.

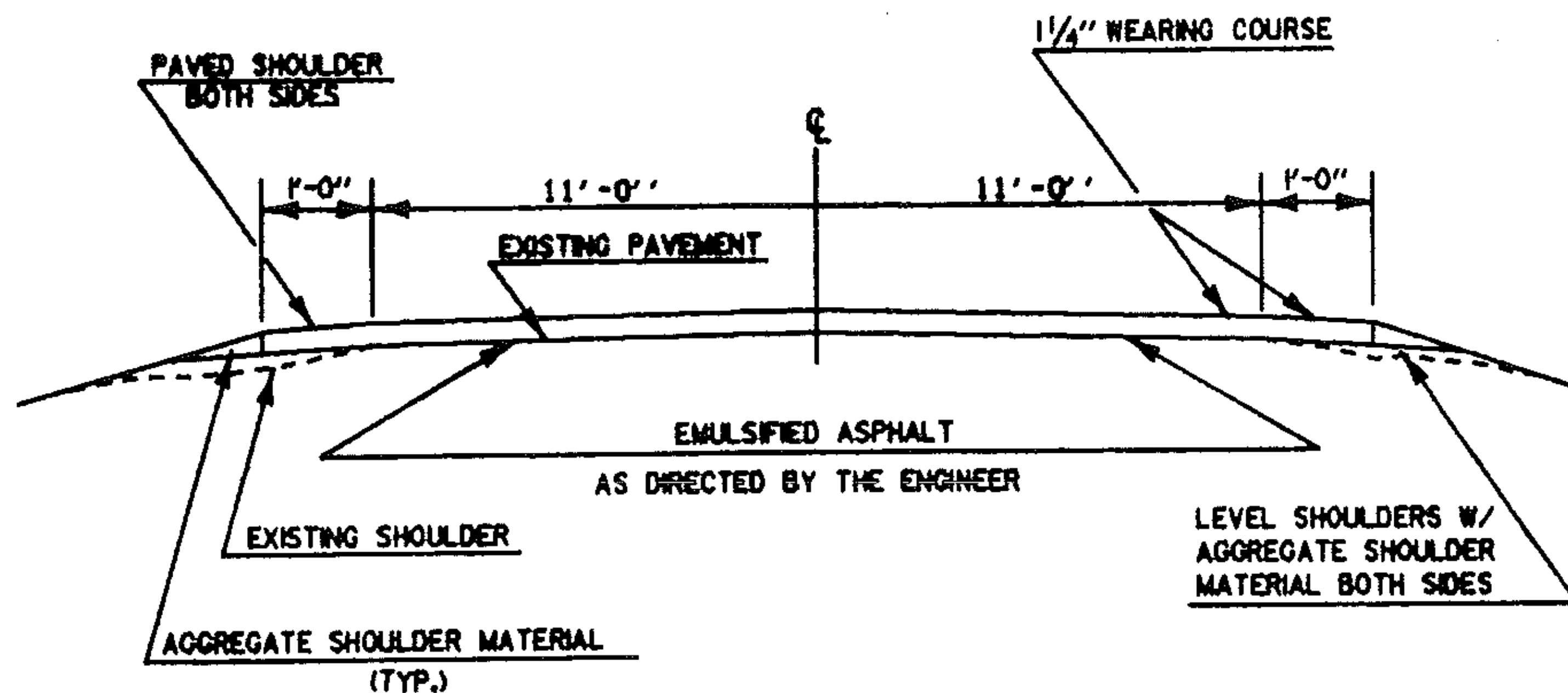


PROJECT RIPTON

NO. HMA 2864
 SHEET 4 OF 8 SHEETS
 SHEET 52 OF 75 SHEETS

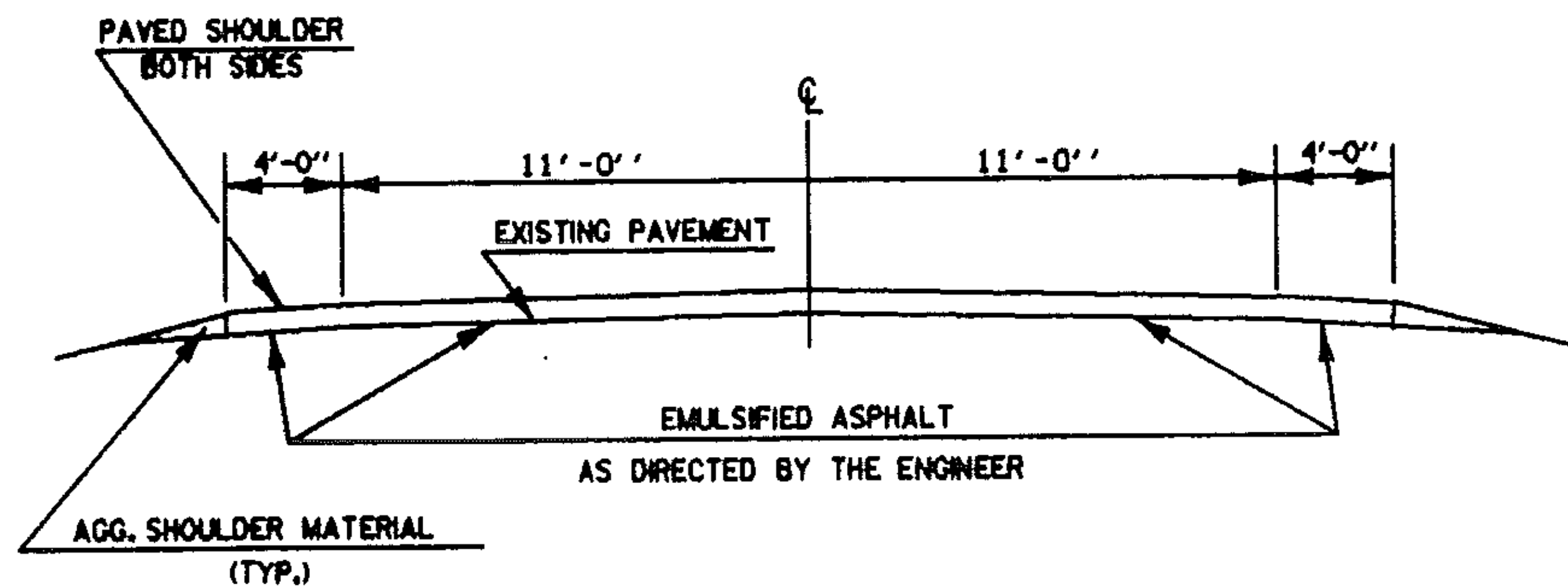
TYPICAL SECTIONS & DESIGN DATA

BITUMINOUS CONCRETE PAVEMENT
LEVELING COURSE TYPE IV (273# & 341# TONS/MILE)
AS DIRECTED BY THE ENGINEER.
1 1/4" WEARING COURSE TYPE III (±1/4" THICKNESS TOLERANCE)



VT. 125 MM 0.337 ~ MM 1.014*

NOTE : WHEN ENCOUNTERING VEGETATION OR POOR MATERIAL IN THE SHOULDER AREA, REMOVE 2" BELOW EXISTING PAVEMENT LEVEL AND REPLACE WITH AGGREGATE SHOULDER MATERIAL. REMOVAL OF THIS MATERIAL WILL BE PAID FOR UNDER THE ITEM 'ALL PURPOSE EXCAVATOR RENTAL' OR 'GRADER RENTAL'.



VT. 125 MM 1.014 ~ MM 1.164**

PROJECT RIPTON

NO. HMA 2864
 SHEET 5 OF 8 SHEETS
 SHEET 53 OF 75 SHEETS

PROJECT LENGTHS AND ITEM QUANTITIES

ITEM DESCRIPTION	Length	Width	Overlay Depth	Option											
				Aggregate Shoulders	Aggregate Shoulders	Emulsified Asphalt	Bituminous Concrete Pavement	Power Grader Rental	Power Excavator Rental	Truck Rental	Uniformed Traffic Officers	Flaggers	Mobilization		
ITEM NO.	FT	FT	IN	402.10	402.12	404.65	406.25	608.15	608.25	608.30	608.37	630.10	630.15	635.10	
IT	FT	FT	IN	CY	TON	CWT	TON	HR	HR	HR	HR	HR	HR	LS	
MM 0.000 0.140	740	26	1 1/4	89	156	2	148	12	12	10	12	130	200	0.07	Includes Shoulders Level Course
MM 0.140 0.337	1040	20	1 1/4	125	219	6	160								Includes Shoulders Level Course
MM 0.337 1.014	3575	24	1 1/4	430	752	7	662								Includes Shoulders Level Course
MM 1.014 1.164	791	30	1 1/4	40	70	3	183								Includes Shoulders Level Course
Drives + Approaches				29	51		16								
Rounding				2	7	2	8	-	-	-	-	-	-	-	
TOTALS				715	1255	20	1500	12	12	10	12	130	200	0.07	

PROJECT Ripton

NO. HMA 2864

SHEET 7 OF 8 SHEETS
SHEET 55 OF 75 SHEETS

STATE OF VERMONT
 AGENCY OF TRANSPORTATION



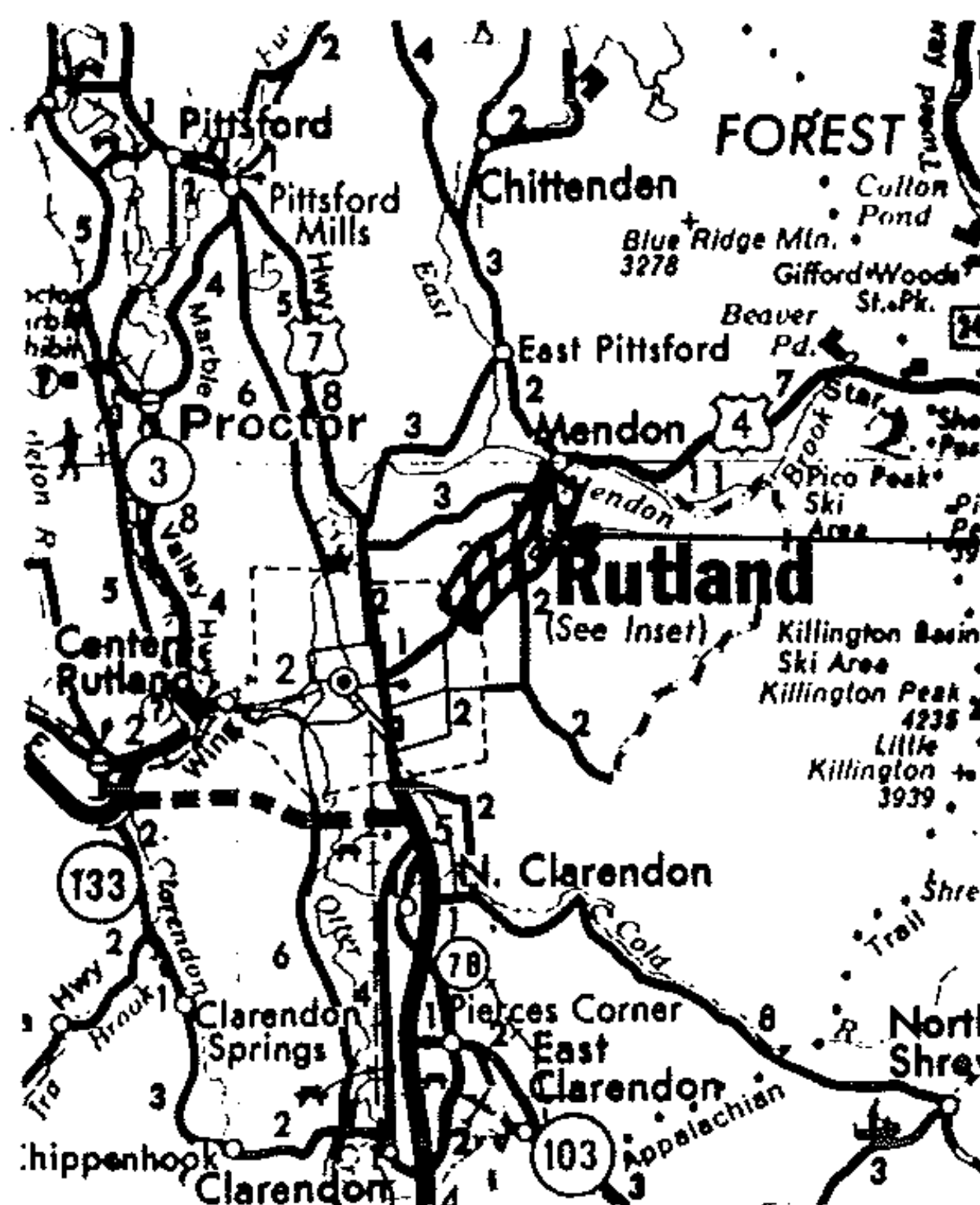
PROPOSED IMPROVEMENT

TOWN OF Rutland-Mendon

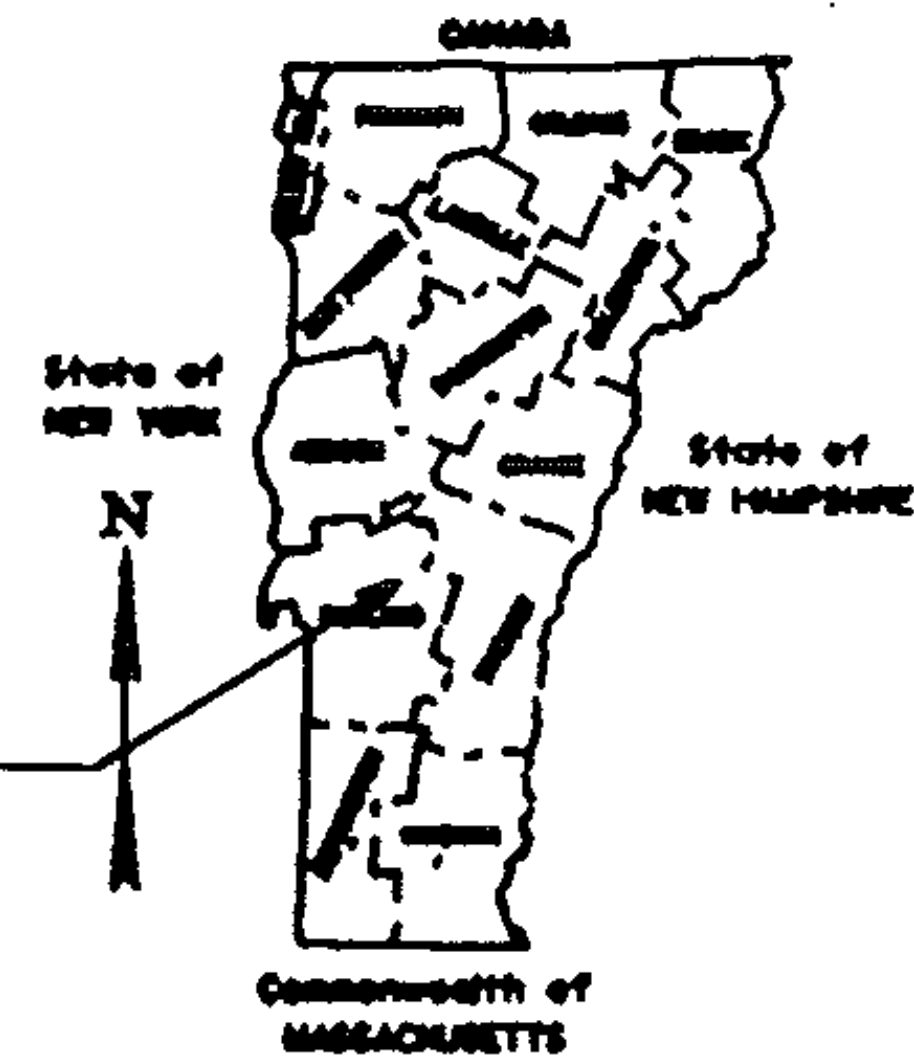
COUNTY OF Rutland

ROUTE NO. US 4

ROUTE CLASS FAP



PROJECT
HMA 2847



THESE PLANS ARE SUBJECT TO SUCH ENGINEERING CHANGES AS MAY BE REQUIRED BY THE FEDERAL HIGHWAY ADMINISTRATION OR THE CHIEF ENGINEER. CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 1996, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON NOVEMBER 8, 1996 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

SUBMITTED BY ORDER OF THE STATE TRANSPORTATION BOARD

APPROVED _____ DATE _____
 CHIEF ENGINEER

DEPARTMENT OF TRANSPORTATION
 FEDERAL HIGHWAY ADMINISTRATION

APPROVED _____ DATE _____
 DIVISION ADMINISTRATOR

Rutland-Mendon
 PROJECT HMA # 2847

SHEET 1 OF 12 SHEETS

See Sheet 1 For Index

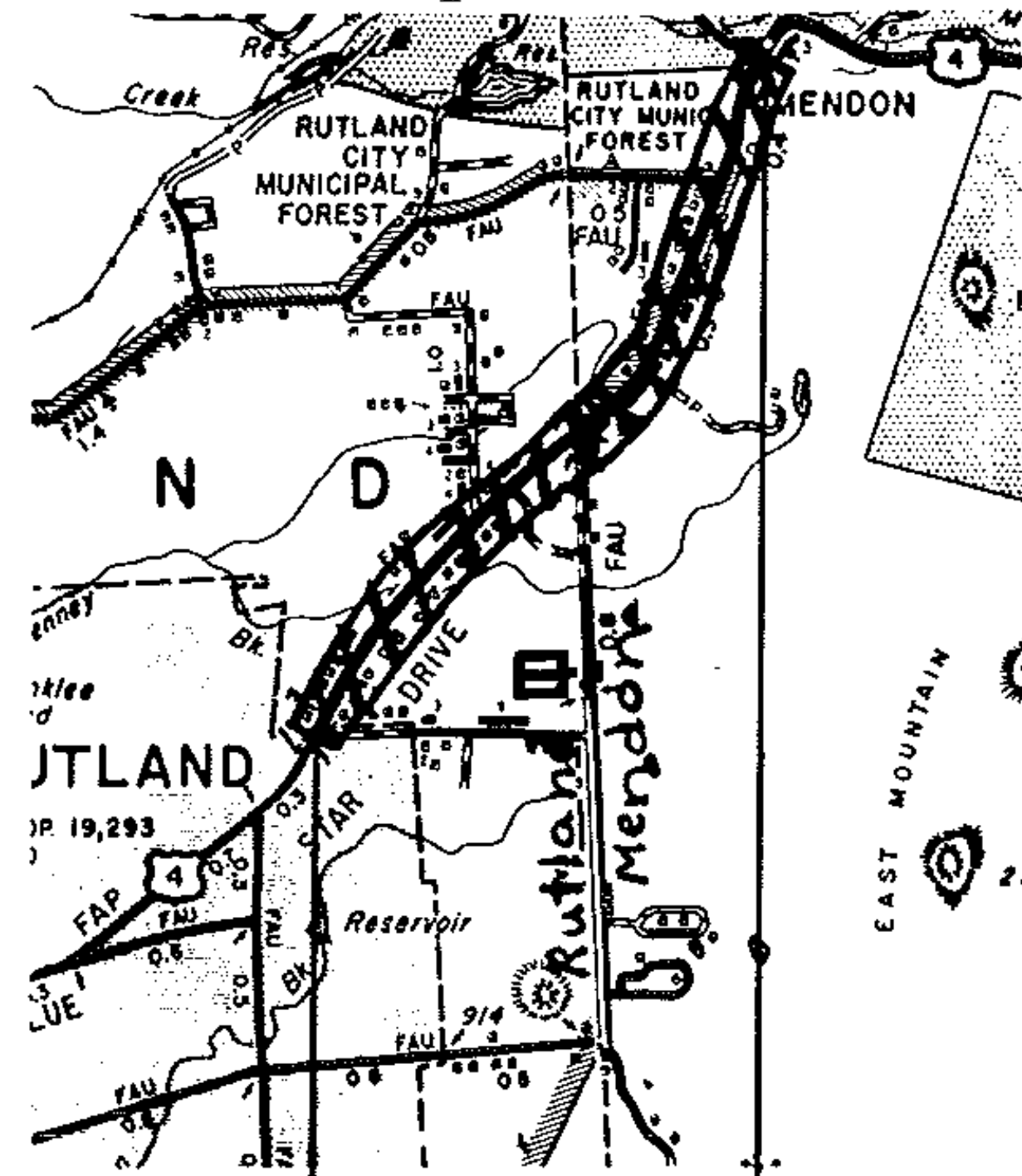
INDEX OF SHEETS

1. TITLE PAGE
2. INDEX OF SHEETS
3. DESCRIPTION AND LOCATION
- 4-6. TYPICAL SECTIONS AND DESIGN DATA
- 7-8. PAVEMENT MARKING LOCATIONS
- 9-10. PROJECT LENGTHS AND ITEM QUANTITIES
11. TYPICAL MARKINGS FOR SIGNALIZED INTERSECTION
12. DETAIL SHEET

PROJECT RUTLAND-MENDON

NO. HMA 2847
SHEET 2 OF 12 SHEETS
SHEET 58 OF 75 SHEETS

DESCRIPTION AND LOCATION



scale: 1" = 1 mile

Begin Project HMA 2847
MM 0.997

End Project HMA 2847
MM 1.254

Beginning at a point on US 4, 0.997 miles easterly of the West Rutland-Rutland town line and extending 2.488 miles easterly to MM 1.254 in the town of Mendon

Work consists of resurfacing of the highway, including shoulders and new pavement markings

1986 ADT 9770

length of Project 2.488 miles
13130 feet

PROJECT Rutland-Mendon

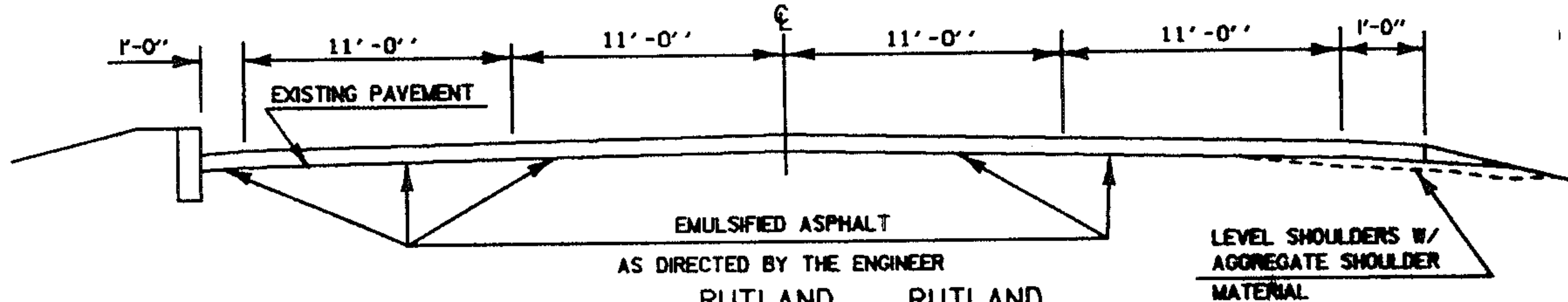
NO. HMA 2847

SHEET 3 OF 12 SHEETS

SHEET 59 OF 75 SHEETS

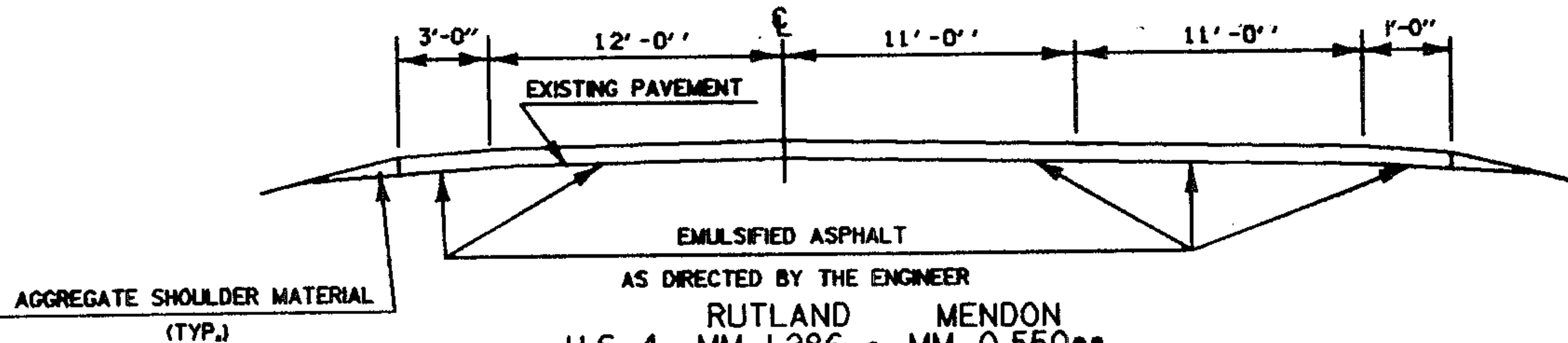
TYPICAL SECTIONS & DESIGN DATA

BITUMINOUS CONCRETE PAVEMENT
 LEVELING COURSE TYPE IV (523* & 432** TONS/MILE)
 AS DIRECTED BY THE ENGINEER.
 1 1/2" WEARING COURSE TYPE III (± 1/4" THICKNESS TOLERANCE)



AS DIRECTED BY THE ENGINEER
 RUTLAND RUTLAND
 U.S. 4 MM 0.997 ~ MM 1.116*

RUTLAND RUTLAND
 U.S. 4 MM 1.116 ~ MM 1.286 (SEE SHEET 12 OF 12)



AS DIRECTED BY THE ENGINEER
 RUTLAND MENDON
 U.S. 4 MM 1.286 ~ MM 0.550**

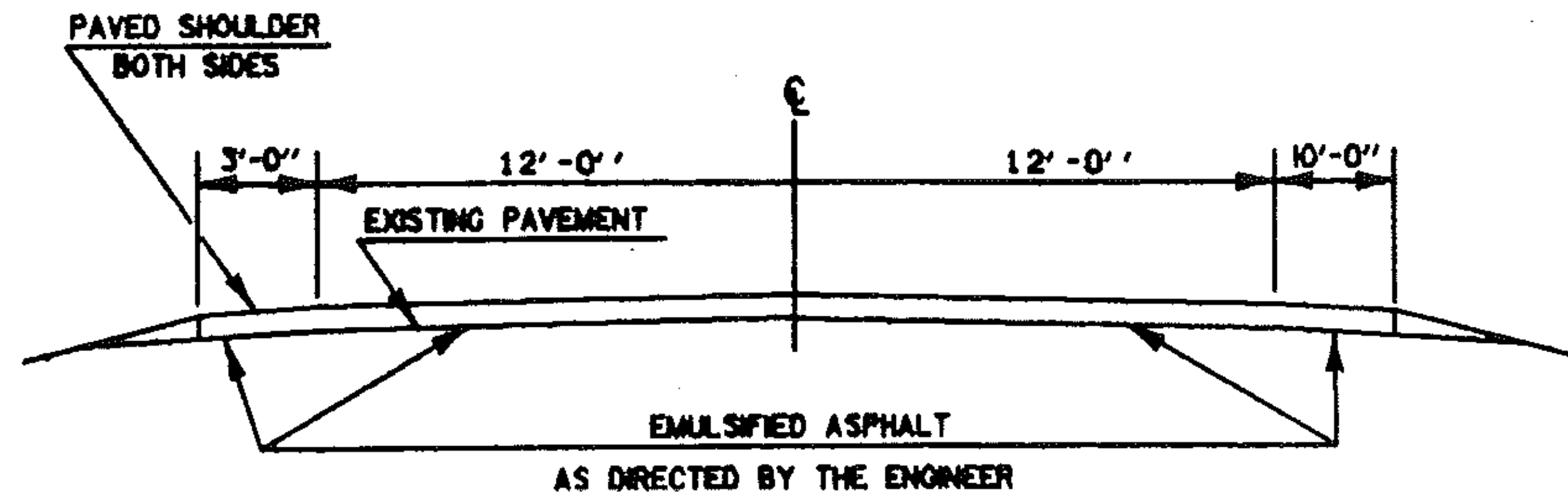
NOTE : WHEN ENCOUNTERING VEGETATION OR POOR MATERIAL IN THE SHOULDER AREA,
 REMOVE 2" BELOW EXISTING PAVEMENT LEVEL AND REPLACE WITH AGGREGATE
 SHOULDER MATERIAL. REMOVAL OF THIS MATERIAL WILL BE PAID FOR UNDER
 THE ITEM 'ALL PURPOSE EXCAVATOR RENTAL' OR 'GRADER RENTAL'.

PROJECT RUTLAND-MENDON

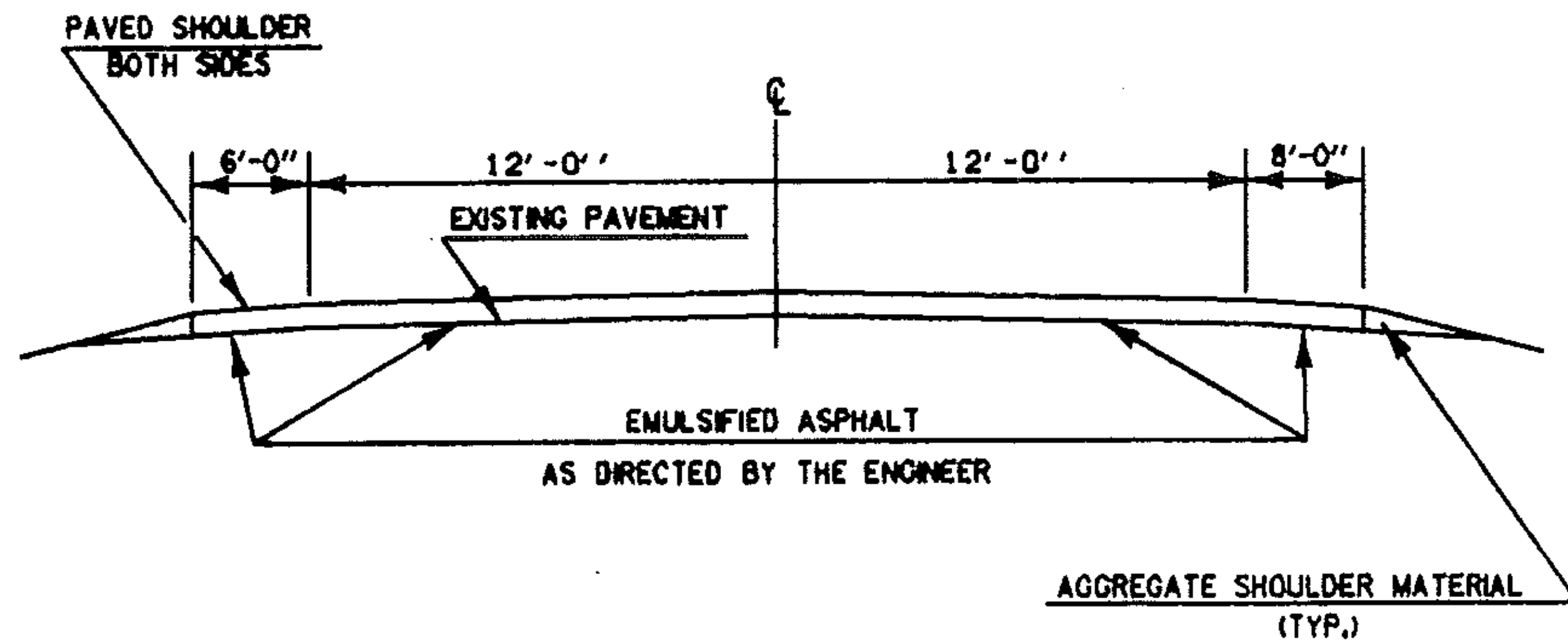
NO. HMA 2847
 SHEET 4 OF 12 SHEETS
 SHEET 60 OF 75 SHEETS

TYPICAL SECTIONS & DESIGN DATA

BITUMINOUS CONCRETE PAVEMENT
LEVELING COURSE TYPE IV (420* & 432 TONS/MILE)**
AS DIRECTED BY THE ENGINEER.
1 1/2" WEARING COURSE TYPE III (±1/4" THICKNESS TOLERANCE)



MENDON
U.S. 4 MM 0.550 ~ MM 0.800*



MENDON
U.S. 4 MM 0.800 ~ MM 0.850**

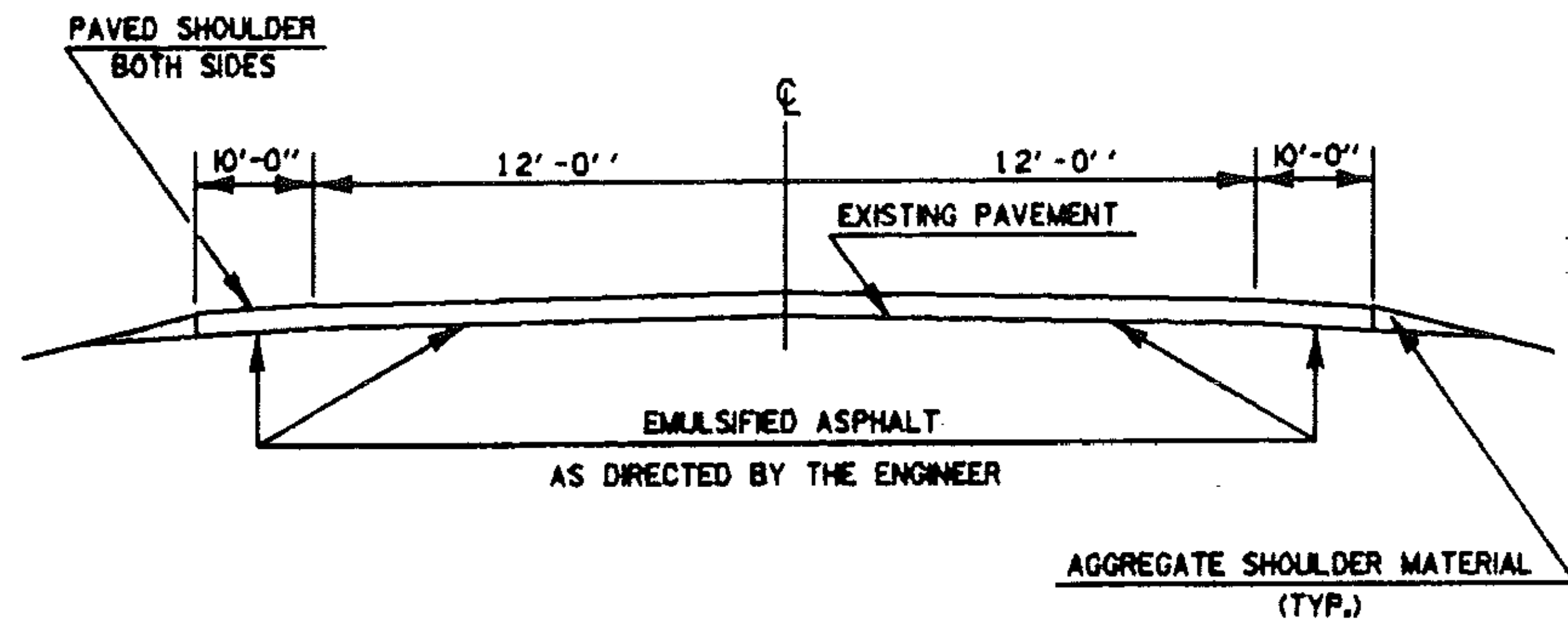
NOTE : WHEN ENCOUNTERING VEGETATION OR POOR MATERIAL IN THE SHOULDER AREA,
 REMOVE 2" BELOW EXISTING PAVEMENT LEVEL AND REPLACE WITH AGGREGATE
 SHOULDER MATERIAL. REMOVAL OF THIS MATERIAL WILL BE PAID FOR UNDER
 THE ITEM 'ALL PURPOSE EXCAVATOR RENTAL' OR 'GRADER RENTAL'.

PROJECT RUTLAND-MENDON

NO. HMA 2847
 SHEET 5 OF 12 SHEETS
 SHEET 61 OF 75 SHEETS

TYPICAL SECTIONS & DESIGN DATA

BITUMINOUS CONCRETE PAVEMENT
LEVELING COURSE TYPE IV (500 TONS/MILE)
AS DIRECTED BY THE ENGINEER.
1 1/2" WEARING COURSE TYPE III (±1/4" THICKNESS TOLERANCE)



MENDON
U.S. 4 MM 0.850 ~ MM 1.254

NOTE : WHEN ENCOUNTERING VEGETATION OR POOR MATERIAL IN THE SHOULDER AREA, REMOVE 2" BELOW EXISTING PAVEMENT LEVEL AND REPLACE WITH AGGREGATE SHOULDER MATERIAL. REMOVAL OF THIS MATERIAL WILL BE PAID FOR UNDER THE ITEM 'ALL PURPOSE EXCAVATOR RENTAL' OR 'GRADER RENTAL'.

PROJECT RUTLAND-MENDON

NO. HMA 2847
SHEET 6 OF 12 SHEETS
SHEET 62 OF 75 SHEETS

TEMPORARY 4" WHITE LINE

MILE	MILE	LT Edge	LT Center	RT center	RT Edge	QUANTITY		QUANTITY		TOTAL
						LT Edge	LT Center	RT Center	RT Edge	
0.997	1.116	Solid -	Dash	Dash	Solid	882	220	220	882	2204
1.116	1.286	From Detail Sheet				750	420	461	900	2531
1.286	2.23	Solid	-	Dash	Solid	4984	1246	1246	4984	11214
0.00	0.55	Solid	-	Dash	Solid	2904		726	2904	6534
0.55	1.254	Solid	-	-	Solid	3717			3717	7434
									TOTAL	29917

DURABLE 4" WHITE LINE

1.116	1.196	From Detail Sheet				12	78	345		423
1.196	1.228					340	43			383
1.228	1.286						75			75
									TOTAL	881

TEMPORARY 4" YELLOW LINE

MILE	MILE	LT	RT	QUANTITY LT	QUANTITY C	QUANTITY RT	TOTALS
0.997	1.116	Solid	Solid	628		628	1256
1.116	1.286	From Detail Sheet		785		785	1570
1.286	2.23	Solid	Solid	4984		4984	9968
0.00	0.94	Solid	Solid	4963		4963	9926
0.94	1.11	Solid	Dash	898		224	1122
1.11	1.14	Dash	Dash		40		40
1.14	1.23	Dash	Solid	119		475	494
1.23	1.254	Solid	Solid	106		106	212
						Subtotal	24688
						Assume 100% loss due to leveling	24688
						Minus 6 Rdwy Openings @ 80' Ea	-960
						x 2 courses of pavement	
						TOTAL	48416

DURABLE 4" YELLOW LINE

1.116	1.196	From Detail Sheet 12		315		315	630
1.196	1.286			470		470	940
						TOTAL	1570

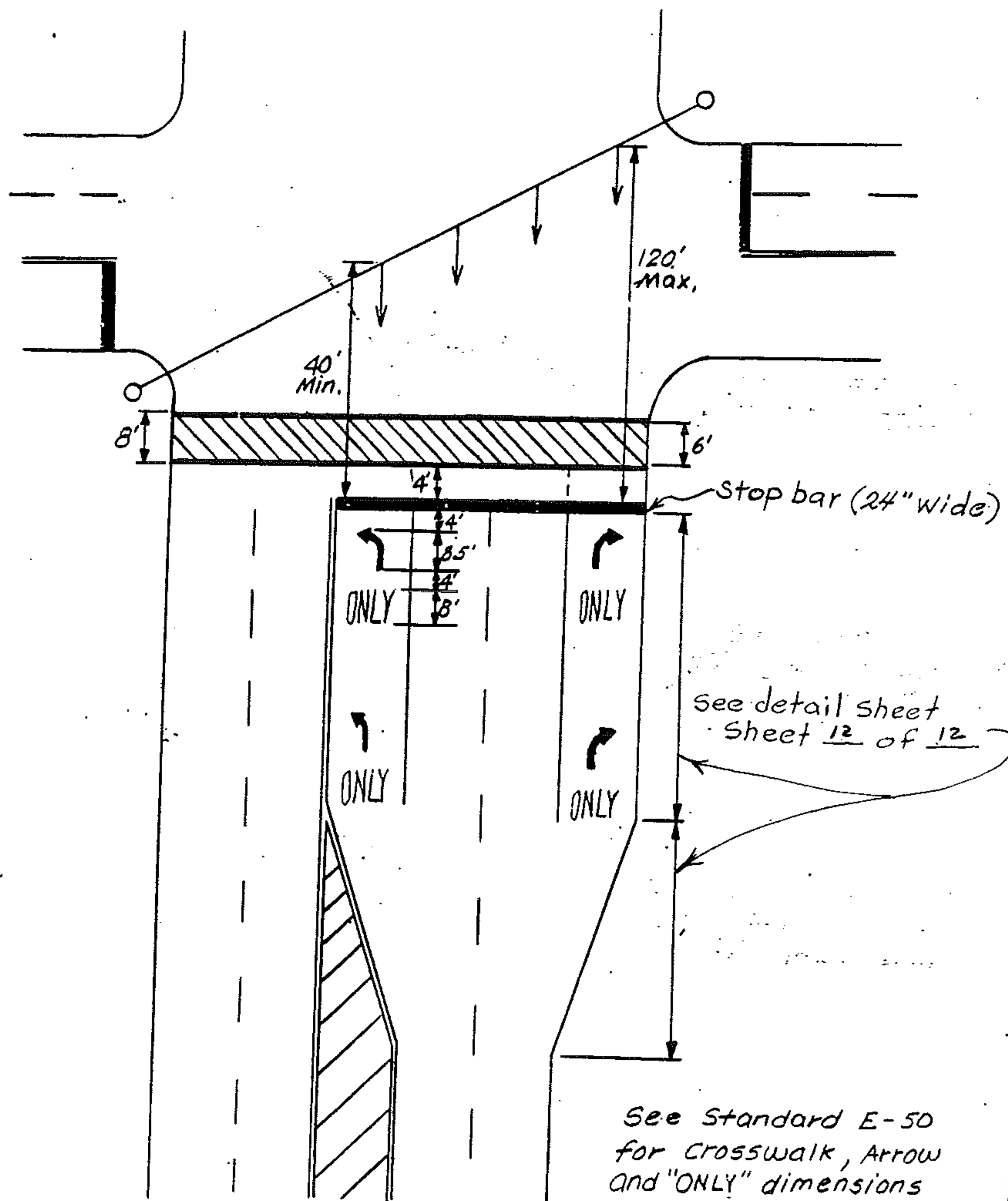
PROJECT Rutland - Mendon

NO. HMA 2847
 SHEET 8 OF 12 SHEETS
 SHEET 64 OF 75 SHEETS

PROJECT LENGTHS AND ITEM QUANTITIES

ITEM DESCRIPTION	Option															
	Length	Width	Overlay Depth	Aggregate Shoulders	Aggregate Shoulders	Emulsified Asphalt	Bituminous Concrete Pavement	Change Elevation of DE, CB, or MH	Power Grader Rental	All Purpose Excavator Rental	Truck Broom Rental	Uniformed Traffic Officers	Flaggers	Mobilization		
ITEM NO.				402.10	402.12	404.65	406.25	604.40	608.15	608.25	608.30	608.37	630.10	630.15	635.10	
UNIT	FT	FT	IN	CY	TON	CWT	TON	EA	HR	HR	HR	HR	HR	HR	LS	
Rutland MM 0.997	630	46	1 1/2			4	268									Includes Shoulders
1.116							62									Level Course
MM 1.116	895	Varies	1 1/2			6	388									Inc. Shoulders
1.286							89									Level Course
Rutland MM 1.286	7894	38	1 1/2			41	2778									Inc. Shoulders
Mendon 0.550							646									Level Course
MM 0.550	1320	37	1 1/2			7	452									Inc. Shoulders
0.800							105									Level Course
MM 0.800	265	38	1 1/2			2	93									Inc. Shoulders
0.850							22									Level Course
MM 0.850	2133	44	1 1/2			13	869									Inc. Shoulders
1.254							202									Level Course
Drives + Approaches Project							549									
				460	810			1	25	25	20	25	550	575	17	
Roundings						2	7	-	-	-	-	-	-	-	-	
TOTAL				460	810	75	6530	1	25	25	20	25	550	575	0.17	

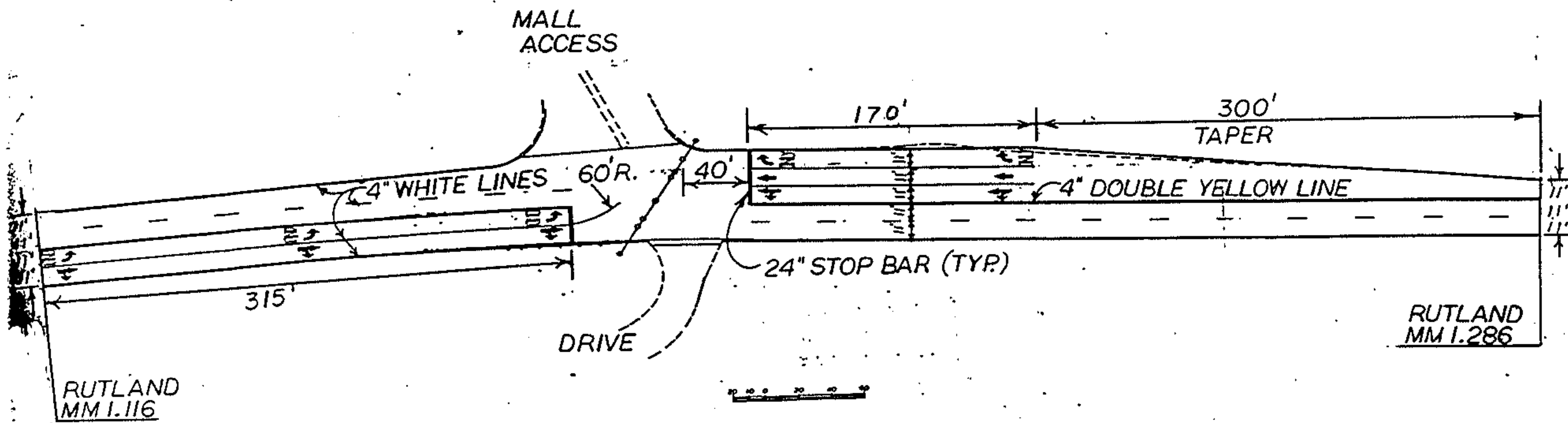
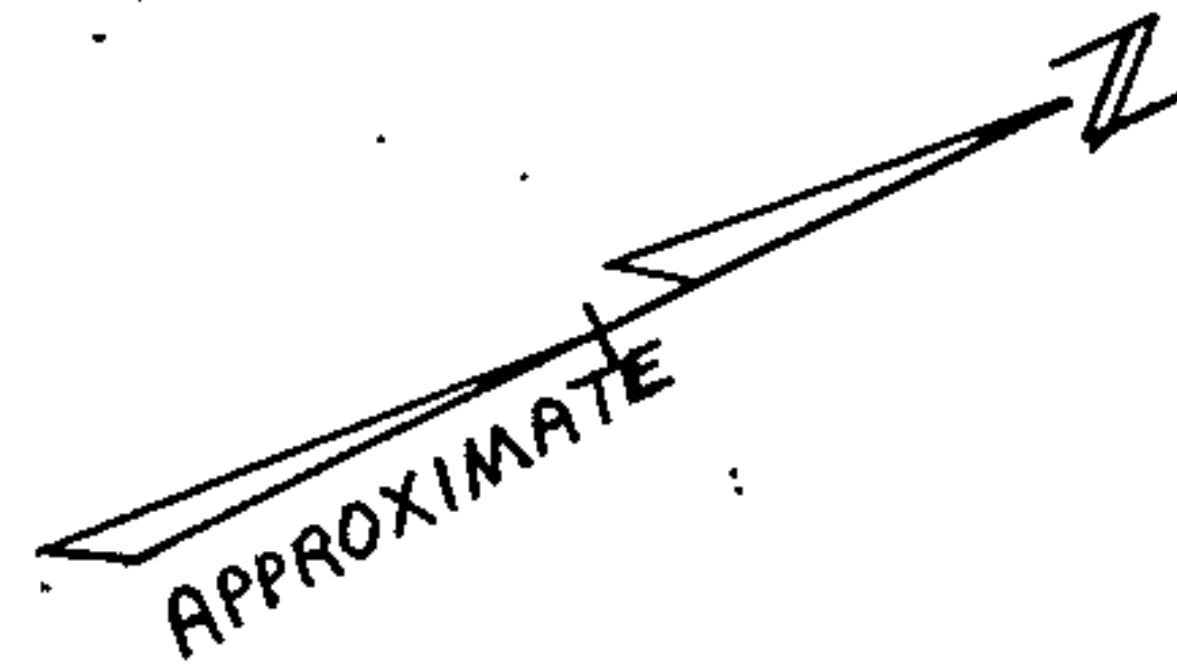
Typical Markings For Signalized Intersection



See detail sheet
Sheet 12 of 12

See Standard E-50
for crosswalk, Arrow
and "ONLY" dimensions

NOTE: ALL MARKINGS DETAILED ON THIS SHEET
ARE DURABLE EXCEPT EDGE LINES
FOR MORE DETAILS SEE SHEET 11 OF 12
AND STANDARD E-50



RUTLAND-MENDON
U.S. RTE. 4
HMA 2847

SHT 12 OF 12
SHT 65 OF 75